200071

#### TECHNICAL MEMORANDUM NUMBER 1

DATE:

January 16, 1991

TÒ:

Vanessa Harris, Site Manager

CC:

Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

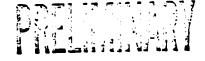
FROM:

Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.023

Himco Dump RI/FS



03

#### MONITORING WELL INSTALLATION

#### Introduction ·

Four deep groundwater monitoring wells were installed as described in Exhibit A, Field Sampling Plan Addendum to Volume 2. Field Sampling Plan. Himco Dump Remedial Investigation/Feasibility Study, Elkhart, Indiana. Drilling activities for these well installations began on November 27, 1990, and were completed December 15, 1990. These piezometers were installed to provide groundwater samples for chemical analysis and to provide water elevations to be used in groundwater flow analysis. Steve Padovani and Tom Puchalski of Donohue & Associates, Inc., inspected the drilling and well installation activities, completed qualitative logs based upon visual inspection of cuttings liberated during air rotary drilling, performed and documented air monitoring using a photoionization detector and gasponder, and completed well installation documentation forms and activity logs. Drilling and well installations were completed by John Mathes and Associates, Inc. (Columbia, Illinois), with a TH 60, Ingersol Rand air rotary rig.

#### Methods

· Drilling and well installation methods were performed as described in Exhibit A. Field Sampling Plan Addendum to Volume 2. Field Sampling Plan. Himco Dumo Remedial Investigation/Feasibility Study, Elkhart, Indiana, Section 4.2.

Air rotary drilling was used to advance boreholes prior to the installation of piezometers. A 7-7/8-inch tricone bit was advanced ahead of 8-inch driven steel casing. No samples were retained from these four borings for piezometer installations, but the Donohue geologist completed an approximate log as drilling progressed based upon visual inspection of drill cuttings.

Piezometers were finished at the following depths: Pl01B, 98 feet; Pl01C, 165 feet; P102B, 65.4 feet; and P102C, 159.5 feet. Their locations are provided in Figure 1.

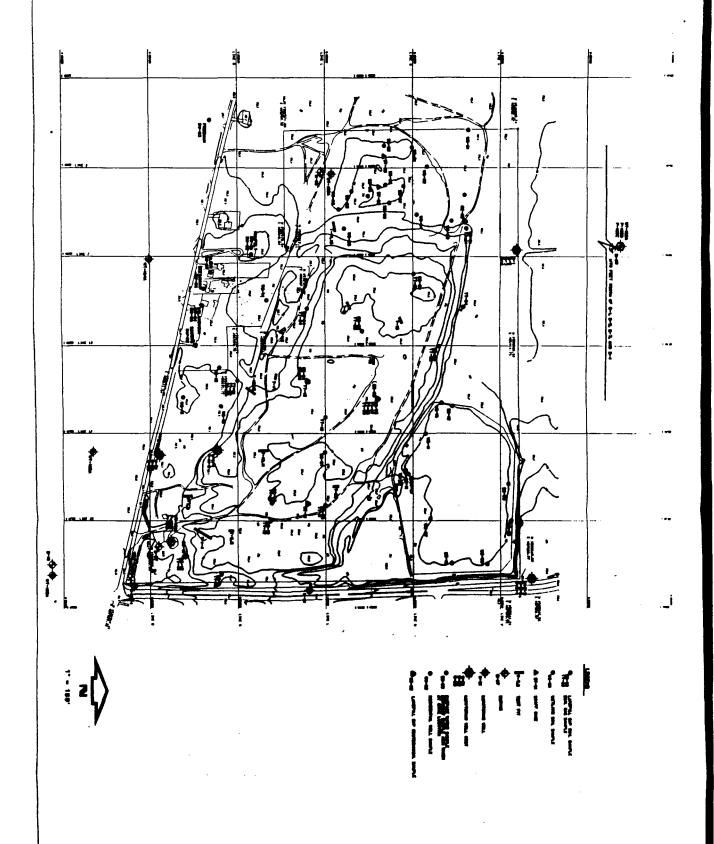


FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA



A typical piezometer installation began with steam cleaning of the 2-inch diameter stainless steel well casing and plastic 1-inch diameter tremie pipe. Following steam cleaning, the 5-foot screen (Dietrich 2-inch I.D., flush-threaded, 0.010-inch slot, Schedule 5, Type 304 stainless) and riser (Dietrich 2-inch I.D., flush-threaded, Schedule 5, Type 304 stainless) were wrapped with teflon tape at the joint and threaded together before being lowered into the borehole. Enough 10-foot stainless steel sections were threaded together to allow a 2.5-foot riser stickup to extend above the ground surface. Excess stickup was cut off with a pipe cutter. In P102B, the annular space between the well screen and the borehole wall were backfilled with number 10-20 silica sand (Colorado Silica Sand, Colorado Silica Sand, Inc., Colorado Springs, Colorado) to 3.4 feet above the top of the well screen. P101B, P101C, and P102C were installed with natural formation sand which collapsed onto the well screen from 2 to 4 feet above the top of the well screen.

The placement of the filter pack was followed by the installation of a 2.5- to 3-foot thick bentonite slurry seal. From the bentonite seal to approximately 3 feet from ground surface, the annular space was backfilled with a cement/bentonite grout. A concrete collar was used to cement the protective casing (steel 4-inch diameter) in place. Vented, threaded PVC caps were installed at the top of the 2-inch risers. Protective casings were supplied with locking lids. Well installation diagrams are provided in Appendix B.

#### <u>Deviations</u>

Intermediate piezometer P102B was installed at 65.4 feet rather than 100 feet since a silt and silty clay layer approximately 34 feet thick was logged beginning at approximately 65 to 70 feet while the boring for P102C was drilled. P102B was installed directly above this confining unit.

P102C was intended to be installed at 175 feet, however, a fine dense sand unit encountered at about 120 feet slowed down the rate of casing advance to less than 20 feet per hour. Very little water was being produced from this zone. Because driving casing became slowed to the point of futility, the well was installed at 159.5 feet by drilling beyond the 140-foot bottom of the 8-inch casing.

P101C was also intended to be installed at 175 feet, however, a large hole developed beneath the back of the rig by settling of sand during casing pounding. This problem, in addition to sand heaving up into the 8-inch casing, forced the installation to occur at 165 feet.

A natural formation sand was used in place of the specified filter pack sand in P102C, P101B, and P101C since sand immediately collapsed the borehole as the drill bit was removed. The 2-inch casing was installed beyond the bottom of the 8-inch casing by jetting water with a tremie pipe while allowing the weight of the 2-inch casing to sink it down to the previously drilled depth. Most of the jetted water circulated back up the 8-inch casing and was not lost to the formation.

Head pressures and loose formation sand also account for natural sand which blew up within the 8-inch casing before the bentonite slurry seal could be installed to the base of the 8-inch casing. Up to 2 feet of sand flowed up into the 8-inch casing prior to seal installation. Specific depths of seal placement are provided for each well in Appendix B.

#### Summary of Results

No samples were retained for this task. The stratigraphy at these locations is provided by boring logs for water table well locations and geotech borings.

The most significant challenge to overcome during these well installations was due to sand heaving up into the 8-inch casing while well installations were being done. The rate of sand heaving was fast enough so that by the time the drill stem was broken and pulled from the boring, up to 70 feet of sand had heaved up into the 8-inch casing. This sand had to be removed prior to well installation.

The sand was cleared from the casing at P102C by jetting water down into the 8-inch casing as the 2-inch casing was installed. Sand and water circulated up and out of the 8-inch casing which allowed the 2-inch casing to drop. Once the sand was removed from the 8-inch casing, further jetting below the 8-inch casing allowed the 2-inch casing to drop below the 8-inch casing and, therefore, expose the 2-inch casing to the formation. This method was required to expose the screen below the 8-inch casing because attempts to pull the casing up were not successful. Shallower installations at P101B and P102B, however, were installed by pulling the 8-inch casing up while the 2-inch casing remained stationary. The installation at P101C required additional effort since the 8-inch casing could not be pulled up, and jetting was not successful beyond the bottom of the 8-inch casing. After two attempts at jetting the well in place, the boring was overdrilled 10 feet and then jetted. This third attempt was successful.

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A/P/HIMCO/AG3

#### APPENDIX A

APPROXIMATE BORING LOGS

## BORING LOG

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Engineers & Architects

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## BORING LOG

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### BORING LOG

SOIL BORING NO.

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APPENDIX B

WELL INSTALLATION DIAGRAMS

Donohue DOUBLE CASING WELL/PIEZOMETER INSTALLATION DIAGRAM Date: 12/12/90 Siter HIMIC DUMP Project No. 30006 023 Well No. PICIC Inspected By: Ton Pick. neers & Architects Driller/Contractor HAX TINNIN DON REDINGTON MATHER UTER ALDED DESIGNATION Concrete Diameter PROTECTIVE CASING GUARD POSTS Type Steel Vented CesyNo Type Shellowing Digmeter\_4" Locked Tes National fill Length 6.01 Key . KA 675 Protective Casing Stick 25 CAP OR PLUG Vented (PS/No Type PVC Length CONCRETE COLLAR Cament lbs.+Water 3 1/2 aal. Thickness 3.0 Total Quantity\_ Manufacturer Rite Mix LIPPER REAL Powder/Granular/Peliese Duanti Hydrated PIPE Type Stainless Steel Schedule 5 Type Borehole Diameter. 1.0. 20 10 feet No. or sec. 16+1 cut. Length/Sec.\_ hickness 150 Setton Dietrick SEP mhs Fo Manufacturer Cosing 150 CROUT Type Cement / Pratonto 32/8 Batche. 100 of TYPE IA Partland + Wei i 165 Length 100 of Birtmite Douder gal s. Total Quant.\_ Manufacturers Portland -Lafrage Buntacite CUTSIDE PROUT TYPE MOUNT e Too Flush Threaded Cal/No. Teflon Toped Yes/No 0-Ring Yes/No Seqi Thickness Top of 156 ft. Manufacturer\_ Dietrich Pack LOWER SEAL 10165 FOWDER XPOHOLE QUENTITY\_ Screen 160 ft. Hydrated Sturry 10 gas. Hee Manufacturer NATURALGEL WYO-REN PRODUCTS Effective [1] Screen Stainless Length Type Continuous Wo \_ Schedule Screen No. of Sec. Length · 1.0. 30 - Bottom SIGT SIZE Soreen 1/25 ft. Manufacturer 4dter. Boring 175 ft. FILTER PACK Type(s) Noture Formatic. 110 Thickness sauge Fine Silm Sand Collegive to 150H Manufacturer 3' blai he Eliasing Measured From Length \_\"

Sorehole Diameter

PLUG OR CAP Type Stain 1855

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Ground Surface

<b>/</b> .	silon Himco Wimp	Dates <u>12</u>	OMETER INSTALLATION DIAGRAM FO
Engineers & Architects	Inspected By: 5 Padeva	•	No. 20036 Well No. PIOSB Contractor Max Tinnin I Medhes
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Grout 54.5	Bottom  Coaling  Top  of  Seal SHLS ft.		Langth/Sec. 10' No. 01 Sec. 6  Manufacturer Diedrich  CROWT Type  MIX HOS. of  Ibs. of  Water gals. Total Quant. 9  Manufacturers  OUTSIDE GROUT Type Beneals -Pertland Mix  AMOUNT Real Hyp. 9 has pertland (3416/bay), 45 Hz b  JOINTS Flush Threaded (24/10/bay), 45 Hz b
Sect 7.5'	Top of 57.0 11.  Pack 8" casing 58.44.  Belletin  Top of 68.4 11.		Teflon Taped (fee) No 0-Ring Yes/No Manufacturer  LOWER SEAL  Powder/Pellets Quantity 5  Hydrated by Lensekte value ad Time 1100  Manufacturer Laferes
Effective Screen Pi ST	Screen Length  Bottom of Screen 65.4 ft.		Type/ Stanles Steel Schedule 5  Length/Sec. 6.8 No. of Sec. /  a.D. 2'14' 1.D. 2'  Stot Size 10 No. Stats/ft. 180  Manufacturer Diedrich
Thickness y	Boring Depth 66 11.	2-1	FILTER PACK Type(s) Natural grama wikyo  Source Czark Manifolac Volume G  Monufocturer General Moderal

Borehole Diameter

PLUG OR CAP Type Stainless Steel Length 1.3

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Donohue DOUBLE CASING WELL/PIEZOMETER INSTALLATION DIAGRAM Sites Himas Dump Dates 12/1/90 \_\_\_ Well No. Plo2C Inspected By: S. Paderani Project No. 300 26 neers & Architects Driller/Contractor Max Tinara / Mathes ENTTHROUGHER CECIA SETUM Concrete Diameter PROTECTIVE CASING GUARD POSTS Vented (es/ Type Losie F. A.)
Locked (45 Type Steel Diameter <u>4</u>" Length \_\_ H ' Key . 192-641 Protective Casing Stick 3.5 CAP OR PLUC Vented Yes/16 Type\_ Langth CONCRETE COLLAR Concrete ickness .5 Total Quantity\_ Manufacturer + Top UPPER SEAL of Powder/Granular/Pellets Quantity.... -Top .5 Pt. Thickness Hydrated \_\_ \_\_\_\_ gal.. Time \_\_\_ of Grout Manufacturer\_ PIPE Type Stainless Steel Schedule Borenole Digneter-Langth/Sec. 10ft/Sec. - No. 01 Sec. 16 + 14 b rickness [149" Settoer Manufacturer Diedrich CROUT Type\_ \_ 10s. of \_ 159.8" Length lbs. of \_\_ gal s. Total Quant.\_\_ Monufacturers -OUTSIDE GROUT Type CLANT bealen 4 TRUF - Velclay AMOUNT .... 472001 PP/ 901+ JOINTS Flush Threaded (63/No\_ Tefion Toped (Yes/No 0-Ring Yes/No • Top of Manufacturer, Thickness Filter Pack LOWER SEAL 8" casing better 153.5 Powders/Pellets Quantity\_~10 \*Top of 54.5 11. gal..Time\_\_\_\_ Hydrated Manufacturer Lataig Effective Screen 8.0 Length Type West itel Schedule 5 Screen 5.0 DE BLE No. of Sec. \_\_\_ Cangin/Sec.\_ Length ■ Bottom No. Slots/fl. /13 screen 59.5 11. Manufacturer Diedi'ch Boring 160 ft. acter. FILTER PACK Type(s) Nichted Mittend 160 -184 Swelve " Thickness Source C Zirk Mintains Valume \_\_\_\_\_ Manufacturer General must erich Measured From Ground Surface \_ Length <u>1.5"</u> PLUG OR CAP TYPE STEE !

Borehole Diameter

Donohue DOUBLE CASING WELL/PIEZOMETER INSTALLATION DIAGRAM Date: 13/14/40 Stor Himes Dum Project No. 30036.013 Well No. PICIB inspected By: Icm Puchalsk Engineers & Architects Driller/Contractor Hax Tinnin Dan Requirester Mo CONTER ALCEE CESTON CONTING Concrete Diameter PROTECTIVE CASING GUARD POSTS 811 Type Steel Vented Yes No. Type Ged Come Diameter Locked Yes Nationa Length 6.01 KA 675 3.0 Protective Casing Stick CAP OR PLUG Vented (es/No Length Type PVC CONCRETE COLLAR Cament 165 ix 5 gal. ibs.+Water Concrete 14.0 Total Quantity\_ Thickness Manufacturer UPPER SEAL Powder/Granular/Pellets Quanti Hydrated PIPE Type Stain Borehole 8 // ex Storl schedule 5 Type 3 0.D. 2.4" 1.0. 20 Langth/Sec. . No. Of Sec. Thickness 84 Bottom Manufacturer Casing 91 Batch 12 CROUT Type Cement Bentonite 10s. of Thre IA Porto Weil 98 Length 10s. of bentonite Docator + Total Quant. 150 gai s. Manufacturers Patiend-Lafange Benterite CHISIDE CROUT TYP AMOUNT\_ • Top JOINTS Flush Threaded (83/No. Tefion Toped Yes No 0-Ring Yes No · Top of 91 Dietrich Monufacturer\_ Thickness filter Pack LOWER SEAL Powder Pellers Quantity 10 155 Top of 93 ft. Hydraus Slurn 15 Monufacturer Naturalized WYOREN PRODUCTS Effective Screen 19 SCREEN Length Screen Langth/Sec. No. of Sec. Length Sottom Siat Size\_ Manufacturer Diethic Mater. Boring Depin 100 ft. FILTER PACK Type(s) Natural Formation Thickness source Fine 51th Sand Bening collepted en · Measured From screen and out of 8" Ground Surface cusing as it was pulliprenose Diameter PLUG OR CAP Type Stainless WATER SOURCE Fire hydrant in front of Elkhart Water A Natural Formation Fine around MATERIAL

#### TECHNICAL MEMORANDUM NUMBER 2

DATE: January 23, 1991

TO: Vanessa Harris - Site Manager

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 175L4J Donohue Project No. 20026.024

Himco Dump



#### Introduction

All newly installed groundwater monitoring wells at the Himco Dump site in Elkhart, Indiana, were developed a minimum of 24 hours after their installation. Water table wells were developed on November 13 and 14, 1990, and piezometers were developed December 15 and 16, 1990. Developed water table wells include WT101A, WT102A, WT103A, WT104A, WT105A, and WT106A. Developed piezometers include P101B, P101C, P102B, and P102C. The locations of these wells are provided in Figure 1 of this memorandum. Water table wells were developed by John Mathes & Associates, Inc., and Eric Slusser of Donohue & Associates, Inc. Piezometers were developed by Max Tinnin and Don Brewington of John Mathes & Associates, Inc., and Tom Puchalski of Donohue & Associates, Inc. Wells were developed to remove sediment from the well and to allow the maximum amount of groundwater to enter the well for groundwater sampling. Well development helps assure that a representative groundwater sample is obtained.

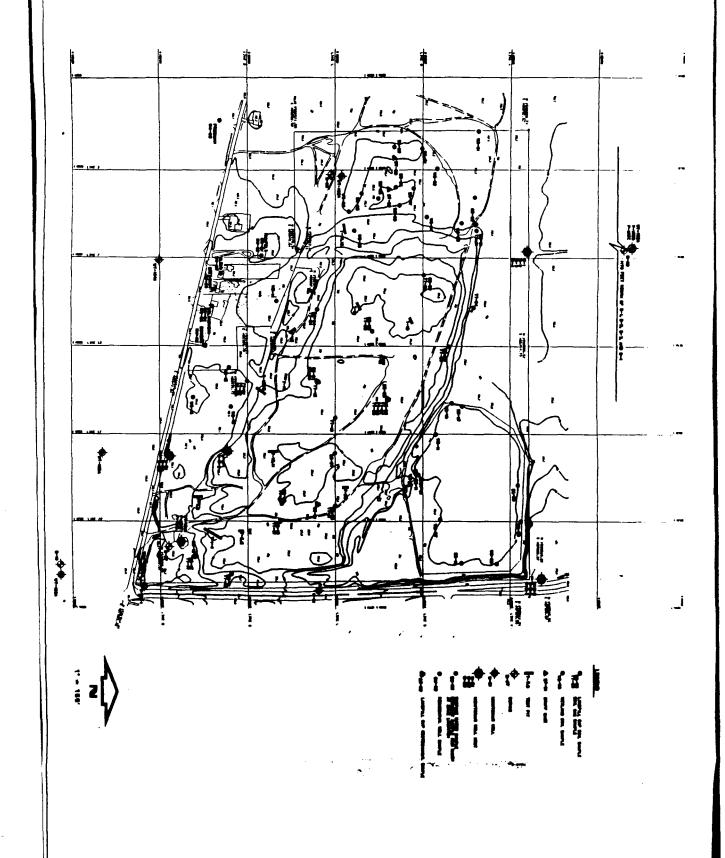
#### Methods

Well development was carried out as specified in the <u>Final Field Sampling Plan</u>. Himco Dump Remedial Investigation/Feasibility Study Elkhart. Indiana, Section 4.2.2.3.

The development method for water table wells was different from the development method for piezometers. Water table wells were pumped by hand using a Brainard Killman hand pump.

Piezometers were developed using compressed air provided by the TH60 drill rig. An air purging device developed by John Mathes & Associates, Inc., was used. This device consists of a compressed air line attached to a tube directed down into the well which takes an 180-degree bend upward into the





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FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA



base of a 1-1/2-inch I.D. plastic water hose. The air lifts the sand and water up through the plastic hose. This method was used for these deep wells because a high volume of water and sand was required to be removed in a short amount of time.

Pumps with sufficient pumping rates are not available for 2-inch wells. The air developer served to remove the sand from the well and purge the groundwater in a reasonable amount of time.

Pumping of the well continued until at least five well volumes were removed and the purge water was silt free, the water temperature was stabilized to  $\pm 0.5$ °C, pH was stabilized to  $\pm 0.1$  units, and conductivity was stabilized to  $\pm 10$  percent.

Measurements of pH, conductivity, color, temperature, and turbidity were recorded at least once after each of the five well volumes were purged.

#### <u>Deviations</u>

High pressure hot water washing of the Brainard Killman hand pump and the air development pump was used for decontamination between wells instead of soap and water, isopropanol, and deionized water as was described in Section 4.2.2.4 of the sampling plan. The lengths of PVC connections and lengths of the exit hose and air compressor hose were not easily cleaned by hand. The high pressure hot water wash provided a quicker and more thorough method of decontamination for this equipment.

The sampling plan specified using a submersible pump for well development. The air development device used by Mathes for the development of the piezometers was used in place of a submersible pump. No submersible pump is available which could pump out the sand and purge the groundwater as quickly from a 2-inch well as did the air development tool.

#### Summary of Results

Copies of completed field forms are provided in Appendix A. The development methods successfully cleared the sand and silt from the installed groundwater monitoring wells and removed the required purge volumes so that a representative groundwater sample could be collected after the wells had stabilized for a minimum of two weeks. All groundwater wells provided sufficient groundwater volume to conduct groundwater sampling.

TP/ke

A/R/HIMCO/AA9

# APPENDIX A WELL DEVELOPMENT DATA

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Donohue Well Development											
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#### Well Development

Engineers & Architects

Project No. 200 26. 023 Site Himes Onne

Method of Development Pumped \_\_\_\_\_\_\_ Bailed \_\_\_\_\_\_ Blown \_\_\_\_ \_\_\_ Surge Block Equipment \_\_\_\_\_ Airlift \_\_\_\_\_ N2 Lift \_\_\_\_\_ In. Bailer \_\_\_\_\_ Length \_\_\_\_\_ Ft. Material

Pump PVC Manufacturer Branged Kilman Diameter 11/4" 10 5154.

Description of site (weather, temp, soil conditions) Tool, 5--- by Tois

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Additional Notes: 2" 0.163 51 3.611

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12/15/90 Well Development Donohue Project No. 3023 CAZ Site Himco Dump Engineers & Architects Bailed \_\_\_\_\_ Method of Development Pumped N2 Lift \_\_\_\_\_In. Bailer \_\_\_\_\_ Length 100 \_\_Ft. Material Pump by rig Description of site (weather, temp, soil conditions) 43°F, Se. H. Wild 141-ph, methy s Volunte Weil No Depth to Depth to Depth Odor Removed (gal.) pH | Cond. | Color Turbidity Temp. Time Water Bottom After Y/N 9.90 604 49.2 Slidet ares 67.24 30 None Clear 40 50.9 634 50 57.0 1.1 51.1 75 te 11 130 5c.4 11 140 5.5 10 160 6.ii | 64 l 51.4 67.39 176419.90 67.29 Additional Notes: In! Hal air sure blew send from school

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<b>Don</b> Engineers			roject No.	300						15/90 )ump		
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<u> </u>	~ ~ ~	J. 1110	

# Well Development 13/16/90

ingineers	&	Architects	Project No.	20036,035 Site	Himco	Dump

Method of Development Pumped Bailed		Surge Block
Equipment Airlift N2 Lift	In. Bailer	ASTM DOJ33 Length <u>100                                   </u>
Pump Manufacturer Mathes devi	sed Dump	Diameter 3/4 "
THO Ingersal Rand Description of site (weather, temp, soil conditions)	40°E. calm.	overcast, foggy, drizzle, wet soil
		' )//

Well No	Depth to Water	Depth to Bottom	Volume Removed (gal.)	Depth After	рН	Cond.	Color	Odor Y/N	Temp.	Turbidity	Comments
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Additional Notes:	Initial air surge	dew soud ned	of screen	

#### TECHNICAL MEMORANDUM NUMBER 3

DATE:

January 21, 1991

TO:

Vanessa Harris, Site Manager

CC:

Marcia Kuehl, RI Lead Roman Gau, Project Manager

Mike Crosser, TSQAM

FROM:

Tom Puchalski

\_\_\_\_\_\_

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17514J Donohue Project No. 20026.024

Himco Dump

### STAFF GAMGES.

#### Introduction

Three staff gawges were installed at the Himco Dump Site; one was installed in the gravel pit pond at the northeast area of the site, one was installed at the "L"-shaped fish pond at the southwest corner of the site, and one was installed at the smallest pond on-site located east of the "L"-shaped fish pond (Figure 1). The posts for anchoring the gawges were installed on October 24, 1990, by Eric Slusser and Tom Puchalski of Donohue & Associates, Inc. The gawges were installed onto the posts by Anya Kirykowicz and Steve Spiewak on December 14, 1990.

The staff games were installed in order to gather surface water elevation data. The measurements were taken on the same days as groundwater elevations from monitoring wells so that interconnection of groundwater and surface water can be evaluated.

#### Methods

The installation of staff gammages proceeded as described in Section 4.3 <u>Surface Water Hydraulic Monitoring</u> of the <u>Final Field Sampling Plan</u>. Himco <u>Dump RI/FS</u>. <u>Elkhart</u>. <u>IN</u>. The actual material used for the anchor posts for staff gammages deviated from what was described in the sampling plan. Two-inch I.D. electrical conduit in 8- or 10-foot lengths were used in place of the coupled galvanized steel described in the plan.

Anchor posts were driven into the bottom sediments of the ponds with a post driver. Hip waders were used to allow the installation in water approximately 2 feet deep about 3 to 5 feet from the shoreline. About 4 feet of the posts remained above water after driving in-place to allow the attachment of a sheet metal rule marked to 0.01-foot.

X

The sheet metal rules were attached to the anchor posts by bolts which pass through the rule and into the posts. Holes were drilled in the posts to accommodate the bolts by using an electric drill at each staff gamage location. A gasoline powered electric generator was used to power the drill. The sheet metal rules were anchored with the top of the rule flush with the top of the anchor post. The elevations of the tops of the anchor posts were surveyed by Lang Feeney of South Bend, Indiana, on December 16, 1990.

#### <u>Deviations</u>

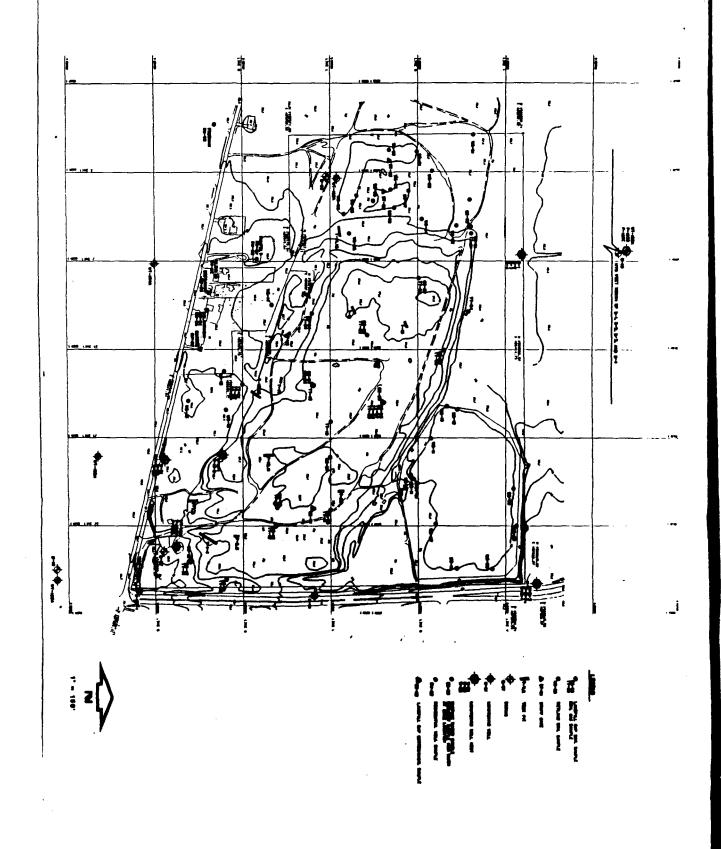
The locations deviate slightly from those shown in Figure 4-1 of the sampling plan. While the ponds shown in Figure 4-1 all have garges installed, Figure 1 of this memorandum more accurately locates the actual staff garge locations within each pond. The locations were modified to account for shoreline and bottom sediment conditions which were most favorable for the staff gauge installations. The conditions include consolidated bottom sediments, which provide a sturdy anchoring of the post, and the absence of shoreline brush which makes accessing and reading the garges difficult.

#### Summary of Results

A table of the observed surface water levels and groundwater monitoring well water level elevations are included in Appendix A. Measurements of the level of ice during months when the surface water was frozen do not accurately reflect the free water surface elevation and should not be used to evaluate surface water to groundwater connection.

TP/ke

A/R/HIMCO/AA6



MAY 1001

FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMGO DUMP Superfund Site Elkhart, Indiana Darightally engineers
Ammitects
scientists

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## WATER ELEVATION

OJECT NO 20026 SITE HIMCO DUMP - INITIAL WELL INVENTORY

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#### TECHNICAL MEMORANDUM NUMBER 4

DATE: January 22, 1991

TO: Vanessa Harris, Site Manager

CC: Marcia Kuehl, RI Lead

Roman Gau, Project Manager

Mike Crosser, TSQAM

FROM: Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump RI/FS

#### GEOTECH BORINGS

#### Introduction

Four deep (175-foot) geotech borings were drilled and sampled as described in Exhibit A, Field Sampling Plan Addendum to Volume 2. Field Sampling Plan. Himco Dump Remedial Investigation/Feasibility Study. Elkhart. Indiana. Drilling activities for these borings began on December 17, 1990, and were completed January 9, 1991. These four borings were completed to investigate the site stratigraphy and to collect samples for geotechnical analysis at the Himco Dump Site, Elkhart, Indiana. The boring locations are provided in Figure 1 of this memorandum. Drilling and sampling activities were completed by Max Tinnin and Don Brewington of John Mathes and Associates, Inc. (Columbia, Illinois) with a TH60, Ingersol Rand air/mud rotary rig. Tom Puchalski of Donohue & Associates, Inc., inspected the drilling and sampling, completed time logs, logged all samples, collected select samples for geotechnical analysis, and performed air monitoring using a photoionization detector and gasponder.

#### Methods

Drilling and sampling were performed as described in Exhibit A. Field Sampling Plan Addendum to Volume 2. Field Sampling Plan. Himco Dump Remedial Investigation/Feasibility Study. Elkhart. Indiana, Section 4.2.

Each geotech boring began with using air rotary and a 7-7/8-inch tricone bit. The boring was blind-drilled to 18 feet. Eight-inch casing was then pounded down into the borehole to 8 or 9 feet. The 8-inch steel casing was then temporarily sealed in-place using granular bentonite. A 3-foot diameter steel casing was installed at the surface with a 6-inch diameter PVC tube extending to a 500-gallon mud tub. After the drilling mud was mixed in the tub, mud rotary drilling began. A 5-7/8-inch blade bit was used for the remainder of Borings 7, 8, and 9. Once this bit was worn out, a 7-7/8-inch blade bit replacement was used to drill Boring 10. Split-spoon sampling was accomplished with a 2-inch 0.D., 2-foot long split-spoon sampler passed down through the inside of the drill stem. The split-spoon sampler was driven by a 140-pound down-hole hammer which was operated by a winch at the surface.

The Donohue geologist performed atmospheric monitoring at 5-foot intervals using a photoionization detector and gasponder. The geologist also logged all the samples using the Unified Soil Classification System (U.S.C.S.) based on visual inspection. A Munsell Color Chart was used to describe all soil colors.

The borings were drilled to the following depths: BRG-7, 174.5 feet; BRG-8, 166 feet; BRG-9, 173.5 feet; and BRG-10, 174 feet.

All borings were abandoned by backfilling with cement/bentonite grout emplaced by tremie pipe.

#### <u>Deviations</u>

The sampling plan specified using a 3-7/8-inch bit, however, either a 5-7/8 or 7-7/8-inch bit was used. The larger bits were required because split-spoon sampling was performed through the inside of the blade bit. Using a larger bit had no effect on the sampling of geotechnical borings.

Although several attempts were made to push shelby tubes, none were successful.

Boring 8 was finished at 166 feet instead of 175 feet because a till aquitard greater than 4 feet thick was encountered. In order to avoid passing through this aquitard at this downgradient location, the hole was stopped after two split-spoons sampled the unit.

#### Summary of Results

Boring logs, including atmospheric monitoring results, are provided in Appendix A.

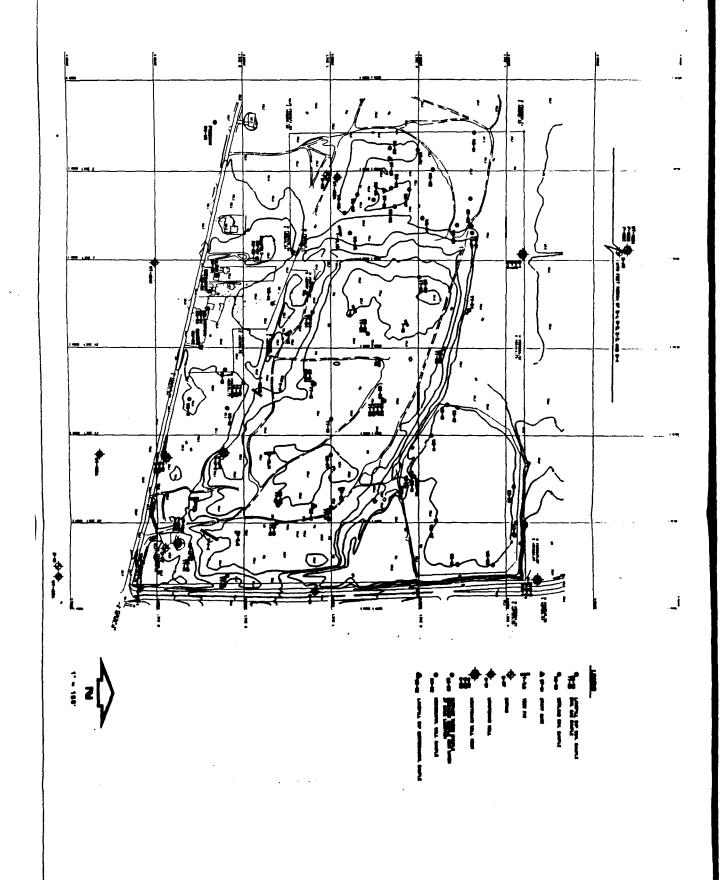
Of the 20 geotechnical and 20 TOC samples sent to the laboratory, 15 geotechnical and 15 TOC samples were collected from the four deep geotech borings. Although three shelby tube samples were also designated to be collected from these four borings, attempts to retrieve these samples were unsuccessful.

Several complications caused delays in the drilling schedule. Some of the difficulties were weather-related. The operation of the drill rig was dependent upon the air system being free of water. Condensation would generally build up overnight which caused pressure losses in the air system. Isopropanol dripped into the lines would eventually clear up this problem. Mud or water freezing in the circulation hoses or in the mud pump also caused delays in the morning while a propane torch was used to thew frozen parts.

One day of drilling was lost to an equipment failure. One of the main hydraulic hoses ruptured on the drill rig requiring replacement.

TP/ke

A/R/HIMCO/AA7



MAY 1001

FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA



APPENDIX A
BORING LOGS

### BORING LOG

SCIL BORING NO.

Engineers & Architects THE MILES DESIGNATION TO

SITE: Himco Dung PROJECT NO. 20026.023

BRG-07

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### BORING LOG

SOIL BORING NO.

Engineers & Architects

SITE: HIMCO DUMP PROJECT NO. 30036.023

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## BORING LOG

SOIL BORING NO.

Engineers & Architects
THEORY AND DESIGNATION

SITE: HIMCO DUMP PROJECT NO. 30036.033

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## BORING LOG

SOIL ECRING NO.

Engine	ers	8	Arc:	ite	cts
(Table 107)	A/CED	~		- 77	~

RILLING METHOD TO THE THE PHONE WATER LEVEL READINGS

SITE: HINCO DUMP PROJECT NO. 30036.033

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## BORING LOG

SOIL BORING NO.

Engineers & Architects

SITE: HIMEO DUMP PROJECT NO. 20036.033

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## BORING, LOG

WATER LEVEL READINGS

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SOIL BORING NO.

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PRILLING METHOD 3/2 blode DIF

and reterry 140 th down-hole

SITE: HIMCO DUMP PROJECT NO. 20036, 023

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Donohue BORING LOG SOIL BORING NO. SITE: HIMCO DUMP PROJECT NO. 30006.0073 Engineers & Architects CHANGE GENERAL SECTION RGGE DRILLING METHODE TE TOUCHE SCIE WATER LEVEL READINGS GROUND SURFACE ELEV .: \_ to 20 fact. 5% Mode hit & mind DEPTH CASING TIME COORDINATES: NORTH: Inter- 20-175 Feet EAST: LOG BY: TON PURPALSKI DATE START: 12 19 190 ORILLER: Max Tinnin/ On Braindor - Westers DATE COMPLETE: WEATHERSCHOOL 359 South wind Smoke PHYSICAL SETTINGIE Oft South WELL INSTALLATIONS 103 AMPLING DATA SOIL OFFOSITIONAL USCS AIR MONITORING SOIL DESCRIPTION AND DRILLING COMMENTS TIGMING!E P10 TIME Rlind Orll with air rotary See log for WT103A for 9 feet .14 1043 0 10 5 GHT 10:18 5/1 Grow Grove! - Sand 4074 sharp 0 | Occi | 05-30 | 05-50 | SW ned arm sand GEGTECH GTOSTON 118-14 shine small gravel saturated CUTWASH CO GP() RECOVERED ONE 1" COBIE ID SPOON TIP 23-35 1331 0

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### BORING LOG

SOIL BORING NO.

Engineers & Architects

SITE: HINCO DUMP PROJECT NO. 20026.023

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## BORING LOG

SOIL BORING NO.

Engineers	& Architects
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SITE: HIMCO DUMP PROJECT NO. 20036.023

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BORING LOG

SOIL BORING NO.

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Engineers & Architects

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SITE: HIMCO DUMP PROJECT NO. 20026.023

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BORING LOG

SOIL BORING NO.

Engineers & Architects	SITE: HINCO DIMP	PROJECT	NO. 20026.023
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SCIL BORING NO.

Engineers & Architects

SITE: HINCO DIMP PROJECT NO. 20076.033

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### BORING LOG

SOIL BORING NO.

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Engineers & Arc	SITE: HIL	YCO DUMP PR	OJECT N	10.	<u> </u>	C.76		72,		Z C		<b>}</b>
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## BORING LOG

SOIL BORING NO.

Engineers	& Architects
THE ALLEY	CERTIFIC CONCESSION

SITE: HIM CO DUMP PROJECT NO. 30036 (373

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### BORING LOG

DEPTH

CASING

WATER LEVEL READINGS

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SOIL' ECRING NO.

SITE: HIMCO DIMP PROJECT NO. 2008. CAS

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## BORING LOG

SOIL ECRING NO.

Engineers	& Architects

SITE: HIHCO DUMD PROJECT NO. 2007 033

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## BORING LOG

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TECHNICAL MEMORANDUM NUMBER5

DATE:

April , 1991

TO:

Marcia Kuehl

CC:

Bob Isenberg Mansour Ghiasi

FROM:

John Cicone

SUBJECT:

EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-SL4J Donohue Project No. 20026.025

HIMCO Landfill RI/FS

#### GEOTECHNICAL DATA EVALUATION

#### Introduction

The objective of this data evaluation is to determine if the data provided from laboratory consolidation and triaxial shear tests, Atterberg limits, grain size and permeability is sufficient enough for use in Remedial Investigation (RI) and Feasibility Study (FS) reports for the HIMCO Landfill.

#### Analytical Results

The following table shows the tests for which data was provided and a summary of the results.

LABORATORY

TEST

RESULTS

Triaxial Shear

Cohesion (c) = 7 psi = 1008 psf

friction angle  $(ø) = 33^{\circ}$ 

Atterberg Limits

See Table 1 (attached)

Grain Size

30 Curves total

Consolidation

Unable to obtain results with given data (see Geotechnical Data

Interpretation)

#### Geotechnical Data Interpretation

Data provided for the triaxial shear testing was sufficient to obtain cohesion and friction angle values. The attached figure shows the Mohr-Coulomb failure envelope plotted by the laboratory and the tangent line drawn by Donohue to obtain cohesion (c) and friction angle  $(\emptyset)$  values.

Data provided for grain size and Atterberg Limits was complete and require no additional interpretation.

No permeability tests were performed, which would be necessary to determine drainage paths and velocities of contaminated liquids.

Data was provided for a consolidation test. The consolidation coefficient,  $c_{v}$ , which is used to determine how long consolidation will take, can normally be determined from this test. However,  $c_{v}$  cannot be obtained with the data provided. All of the data curves seem to indicate the specimens had not reached 100% consolidation when the test was stopped. Two possible conclusions can be drawn from this termination. The first is that the test was stopped too early resulting in an incomplete curve and  $c_{\boldsymbol{\nu}}$  cannot be calculated. The second is that the material may have undergone a very rapid consolidation and  $c_{\mathbf{v}}$  could only be obtained with some difficulty and accuracy The grain size curve for the consolidation test sample would be limited. indicated a clayey silt, which does not normally have a rapid consolidation. Therefore, the second possibility seems less likely; however, definite conclusions cannot be made with available information.

Data was also provided for the consolidation test to allow for calculation of the compression index,  $C_{\rm C}$ . This value is used to determine the magnitude of consolidation settlement. This value cannot be obtained because the x-axis is labeled improperly as ELAPSED TIME (min) when it should be labeled as a load or pressure (see attached figure).

#### Summary

The triaxial shear, Atterberg limit and grain size data were sufficient to obtain strength parameters, and to establish soil classifications of the on-site soil.

No permeability test data was provided with the laboratory results and should be obtained if drainage of material beyond site boundaries is a concern.

Consolidation test information was insufficient to calculate  $c_{\rm V}$  and  $C_{\rm C}$ . The laboratory should be contacted to determine why testing was stopped and to relabel the appropriate graph. Further, the laboratory should, as a matter of common practice, provide the  $c_{\rm V}$  and  $C_{\rm C}$  values.

Attachments - Atterberg Limits Results

- Triaxial Shear Test Results
- Compression Index Curve

B/FAIR/AI4

#### TABLE 1

#### SUMMARY

OF

#### LABORATORY TEST RESULTS

PROJECT :

SAS 5993E

TETC NO. 1 91-220-3106

PROJECT NO. : 8AS 5993E

CLIENT: YEAR COMPANY

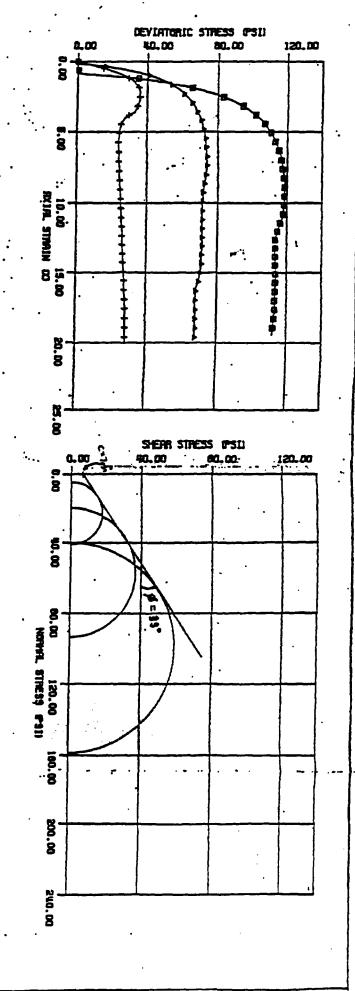
REPORT DATE Feb. 19, 1991

SUNDANIZED BY: 8. Separatana

LABORATORY MANAGER: (And) K. Andmoll

	ATTERBERG LIMITS (ASTM D 4818)								
BOHING.	LIQUID LIMIT		PLASTICITY INDE						
SAMPLE NO.	(%)	(%)	· (m)						
HDQT-07-06-01	21	12	. •						
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HDGT-06-05-01	14	11	6 .						
HDGT-08-06-01	14	11	• .						
HDGT-08-07-01	<b>23</b> ·	_14	• •						
HDGT-10-04-01	21	13 ·	•						
HDGT-10-06-01	24	17	7						

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## CONSOLIDATION TEST RESULTS (ASTM D2435)

PROJECT:

389 5993E

SML / TETC NO. : 91-212-3106

CLIENT PROJECT NO.: 5993E

CLIENT: VIAR COMPANY

REPORT DATE: Feb. 18, 1991

SUMMARIZED BY : S. Sayawatana

SAMPLE NO. :

DEPTH :

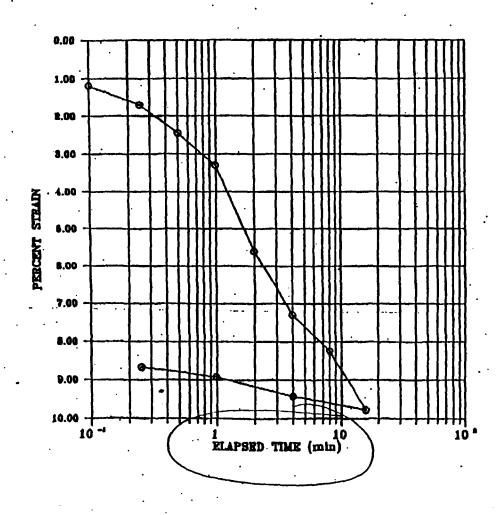
INITIAL DRY DENSITY :

INITIAL MOISTURE CONTENT: 34.0

INITIAL VOID RATIO :

0.816

SPECIFIC GRAVITY :



#### TECHNICAL MEMORANDUM NUMBER 6

DATE: January 23, 1991

TO: Vanessa Harris - Site Manager

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Tom Puchalski

SUBJECT: EPA Arcs Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump

#### PRIVATE WELL SAMPLING AND BASEMENT AIR SCREENING

#### Introduction

Groundwater samples were collected from five residential wells immediately south of the Himco Dump site along County Road 10, and one residential well immediately south of County Road 10 on October 22, 23, and 24, 1990. Four basements of these residences along County Road 10 were also screened for the presence of landfill gases.

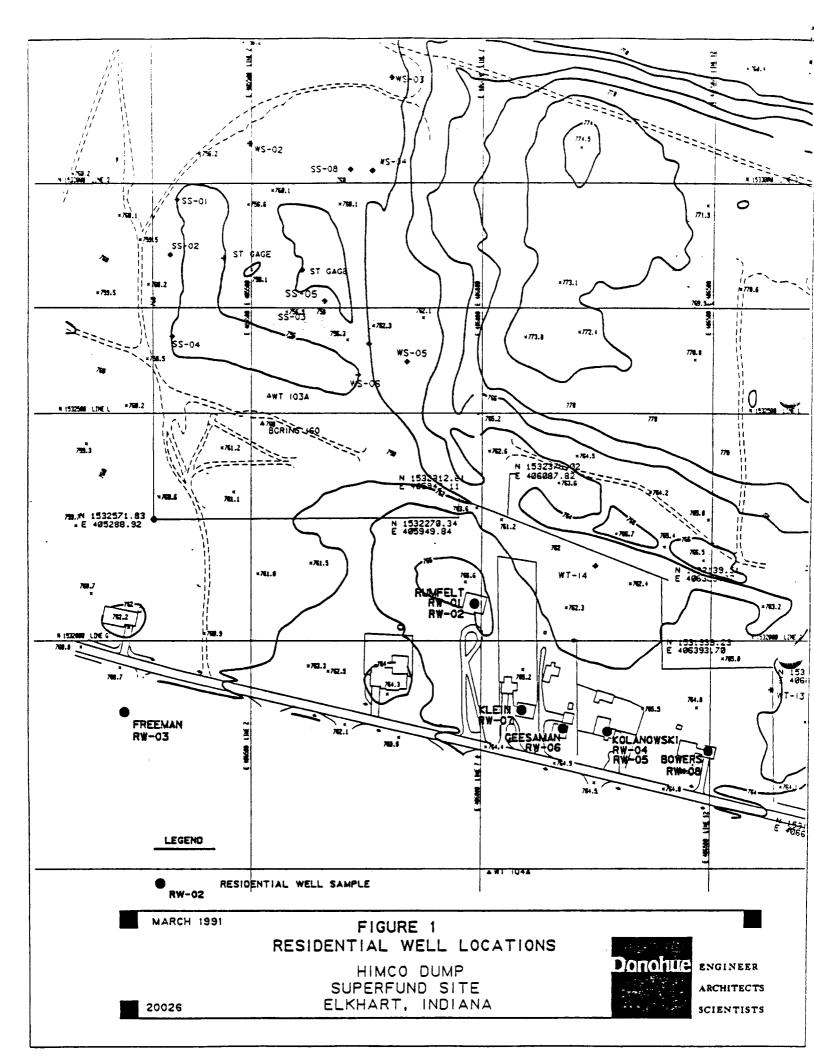
Residential wells were sampled to investigate groundwater quality. Originally, all residences had shallow (approximately 22 feet deep) wells. Deeper wells (at 152 to 172 feet) were installed in 1974. Although the state found high levels of manganese in these wells in 1974 and were ordered replaced, some of the original shallow wells remain. Two wells were sampled at residences where an older shallow well was accessible in addition to their present deep wells. Shallow wells were sampled in addition to deep wells at the Rumfelt and Kolanowski residences.

Basement gas was screened to evaluate if landfill gas which may be generated at the site has migrated off-site and into these nearby resident's basements. This screening was qualitative to check for the presence of methane and hydrogen sulfide.

#### Methods

Groundwater sampling of residential wells and basement air screening was carried out as described in Sections 4.2.4 and 4.8 of the <u>Final Field Sampling Plan. Himco Dump. Remedial Investigation/Feasibility Study. Elkhart. Indiana.</u> The residents names and their addresses are: Noble and Selma Bowers, 28279 CR.10; Mark Freeman, 28552 CR 10; Dave and Joan Geesaman, 28331 CR 10; James and Christine Klein, 28343 CR 10; Helen Kolanowski, 28213 CR 10; and Herman and Patricia Rumfelt, 28369 CR 10 (Figure 1). Samples obtained from newer





deep wells were obtained directly from the tap at the kitchen sink or if available, at a tap in the basement ahead of the water softener. The tap was allowed to purge for five minutes before the sample was collected. Samples taken from shallow wells were purged by bailing. A 1-inch bailer was used in these 1 1/2-inch I.D. wells.

Samples for bromide analysis were field filtered using a millipore filtration unit and 0.45 micron filters. Measurements of field pH, conductivity, temperature, and dissolved oxygen were obtained at the field trailer immediately following sample collection. Preservatives, sample bottles, and holding times are summarized in Table 4-2 of the Final Field Sampling Plan.

#### Deviations

One of the six residences which were originally scheduled for well sampling and basement air screening was removed from the list when the owner of the home could not be located. A homeowner located south of the Himco Dump immediately south of County Road 10 (Freeman) solicited EPA to be added to the list of residential wells to be sampled. Sampling of the Freeman well brought the total residential well locations back up to the anticipated six. The Kolanowski residence did not have a basement and, consequently, was not screened for landfill gas.

Not all of the original six old shallow wells were intact and accessible. In practice, only two older shallow wells were accessible for sampling.

The shallow residential wells were not of large enough diameter (1 1/2-inch) to sample with a Keck pump as described in the field sampling plan. A 1-inch bailer was used as an alternative sampling method.

Five gallons were removed from each of the two residential wells. Readings of pH, conductivity, dissolved oxygen, and volume removed were not recorded during purging of the residential wells, but were recorded after 5 minutes of running the tap for deep wells, or upon removal of 5 gallons from shallow wells.

The 1-inch bailer was decontaminated between sampling locations by an alconox and tap water wash, a tap water rinse, an isopropanol rinse, and two deionized or distilled water rinses. Isopropanol rinsates were collected in a 5-gallon bucket and covered for eventual discharge into the on-site frac tank.

#### Summary of Results

Eight groundwater samples were collected from six locations. Six deep wells were sampled from taps and two shallow wells were sampled by bailing.

The Geesaman and Bower shallow wells were abandoned; the shallow Klein well was in a location which made it inaccessible to bailing, and the fourth shallow well was at a residence which was locked and not occupied.) Well Purging and Sample Collection field forms included in Appendix A give sampling times and measurements of pH, conductivity, temperature, and volumes of water removed as purging progressed.

Basement air was screened at the Rumfelt, Geesaman, Klein, and Bowers residences. A hydrogen sulfide and methane gas detector was used to screen the basement air. No detections of these compounds were registered during any of the basement air monitoring.

A/R/HIMCO/AB2

#### TECHNICAL MEMORANDUM NUMBER 7

DATE: January 24, 1991

TO: Vanessa Harris - Site Manager

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump

LANDFILL CAP SOIL SAMPLING

#### Introduction

Twelve soil samples of the landfill cap at the Himco Dump site in Elkhart, Indiana, were sampled for chemical analysis on November 8, 9, 10, 11, and 12. Sampling methods described in the <u>Final Field Sampling Plan. Himco Dump Remedial Investigation/Feasibility Study. Elkhart. Indiana</u> were followed. Sampling was done by Eric Slusser and Tom Puchalski of Donohue & Associates, Inc. The purpose of sampling the landfill cap was to characterize the chemistry of the white powder matrix which makes up the majority of the cap material.

#### <u>Methods</u>

Section 4.0 of the <u>Final Field Sampling Plan</u>, <u>Himco Dump Remedial Investigation/ Feasibility Study</u>, <u>Elkhart</u>, <u>Indiana</u>, describes the method used for soil cap sampling and the technique used to define the sampling locations. The sampling locations were spread out to cover the entire landfill cap. Soil samples were located from a systematic grid marked by survey stakes. The actual soil sampling locations are provided in Figure 1. Completed soils data forms are in Appendix A.

The twelve soil samples were collected from depths as shallow as three to nine inches and as deep as eight to sixteen inches. The depth varied dependent upon the thickness of the overlying sand and topsoil cover. The cover material overlying the white silt, assumed to be calcium sulfate, was removed with a shovel prior to sampling at each location. A hand auger was used to dig out the white silt. The sample was placed in a composite bowl and immediately placed in two 4 oz. jars for volatile analysis. The remaining sample volume in the composite bowl was mixed using a stainless steel spoon. After a homogeneous mixture was obtained, the sample was divided into four quadrants. Small portions of each quadrant were used to fill each remaining sample jar.

Before sampling and between each sample location, all sampling equipment was decontaminated with: (1) a soap and tap water wash, (2) a tap water rinse, (3) an isopropanol rinse, and (4) two rinses with distilled or deionized water. Isopropanol rinses were retained in a covered 5-gallon pail for eventual discharge into the on-site frac tank.

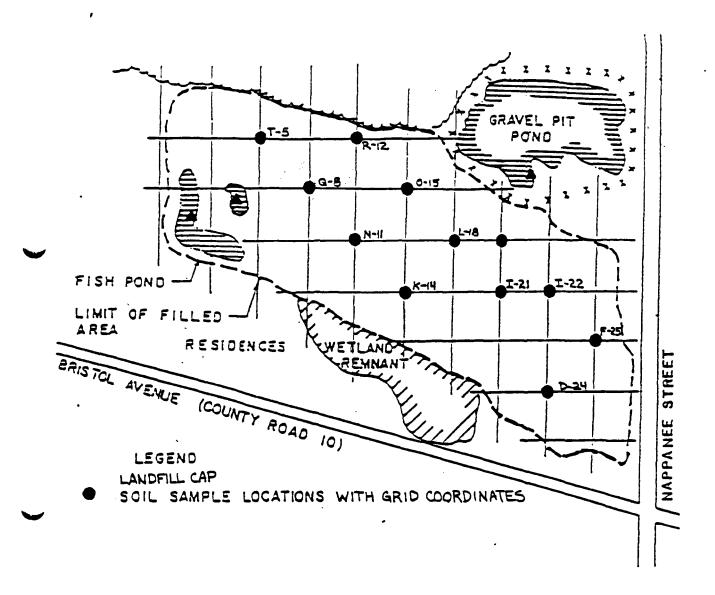
#### <u>Deviations</u>

Figure 4-1 of the sampling plan shows soil sampling locations based on a grid system which was not used in the field. The grid shown in Figure 4-1 is diagramatic and not meant to represent the final surveyed grid. It was designed to show approximate soil cap sampling locations. Actual grid points were selected in the field using the general pattern, as shown in Figure 4-1, so that the entire area of the landfill cap was sampled. The actual grid points are shown in Figure 1 of this memorandum. Photographs were not taken of each location on the landfill cap as the sampling areas were similar, and the photowould not aid in identifying the location.

### Summary of Results

Soil samples of the cap soil material were taken at twelve locations spaced out across the area of the landfill cap. In general, the white silt thins from west to east. The appearance of the white silt is uniform with no discernible trends. Soils data forms are provided in Appendix A of this memorandum.

A/R/HIMCO/AB1



0 500 1000 - SCALE: FEET

SCALE IS APPROXIMATE

SOURCE: US EPA, AUGUST, 1986

Donohue APPROXIMATE SITE SAMPLING LOCATIONS

2

20026 May, 1990 FIELD SAMPLING PLAN HIMCO DUMP SITE ELKHART, INDLANA

FIGURE

			SHEET OF
Donohue	Soils Da	ata Form	Soil Sample Area Capsc. Soil Subsample
Engineers & Architects	& Scientists	Site Himo Du	um) Project No.20036
	3_ 1 PUCHALSKI 1C SLUSSER		
SAMPLE DEPTH _	12-18" 600	n surface	
PHYSICAL DESCRI	PTION OF SUI	BSAMPLING LOC	CATION: T-5 survey mor
DESCRIPTION OF S	UBSAMPLE: _	white gilt (Hc)	non plas, low rely, dampo.

Donohue ,	Soils Dat	a For	m		Soil Sample Area Capsoil Soil Subsample GS 02
Engineers & Architects &	Scientists	Site	Himm	Dumo	Project No. <u>20026</u>
	OCHALSKI BLUSSER				
SAMPLE DEPTH	,-18"				
PHYSICAL DESCRIPTI 4 350 feet east o	ON OF SUBS	SAMP edge	LING L	OCATIO	DN: 0-8 survey stake
	SAMPLE: _	inche	es of to	roscil au	I horas alt. sand
DESCRIPTION OF SUB	Aliche is	whit	e gilt	(MC) x	en this, true orly, dazug.

				SHEET	OF
Donohue	Soils Da	ata Form		l Sample Area C Subsample	
Engineers & Architects	& Scientists	Site Hima	Dum	Project No.	0036.Č
	PUCHALSKI SLUSSER	<u></u>			
SAMPLE DEPTH	6-18"			·	
PHYSICAL DESCRIP stake N-11 near surface comsists of	- middle of	flat covered	OCATION:	: Capsoil at regetation at	survei;
DESCRIPTION OF SU	JBSAMPLE:	Sample consi	sts of w lenfow	hite silt (ML num) stringer	<u> </u>
ANY OTHER CHARA	CTERISTICS	OF NOTE:			

			SHEET _	OF
Donohue ,	Soils Data	Form	Soil Sample A Soil Subsamp	le GSOH
Engineers & Architect	s & Scientists S	lite <u>Himo Dum</u>	Project	No. 30026,03
	M PUCHALSKI			
SAMPLE DEPTH .	0-3" 3:14. Sawl (3"-17" Sampled whip silt	nver-bot samp low		
PHYSICAL DESCRI hear southers they wellow remnan		MPLING LOCAT	TON: Survey of feet nowth	marker K-14 of
DESCRIPTION OF S	UBSAMPLE: W	nite silt (tul loist nen plas	I with in tra	ce of
ANY OTHER CHAR Reached gray mois ruger hole. We in		al 18". Methan		

Donohue ,	Soils Data Fort		il Sample Area il Subsample 👤	
Engineers & Architects &	Scientists Site.	Lime Dung	_ Project No	) FCC F
DATE 11/10/40 TIME 941 COLLECTOR Frie	Sluscer Puchalsk			
SAMPLE DEPTH	8-16"			
•				
PHYSICAL DESCRIPT	ION OF SUBSAMP	LING LOCATION	1: Middle nar stake R-12	Hi area
PHYSICAL DESCRIPT	Fort perturf we south set in/h	ands at survey	stake R-12	

Donohue ,	Soils Data Form	Soil Sample Area Landfi Soil Subsample 6506
Engineers & Architects &	Scientists Site Himan	Dim Project No. 20026.
DATE 11/10/90 TIME 905 COLLECTOR TOP ERIO		
SAMPLE DEPTH	6-14"	
PHYSICAL DESCRIPT	ION OF SUBSAMPLING L	OCATION: 2 200 feet south
6" ct cover fill c	BSAMPLE: White silt () ousists of brown fil andled. Grey silty sa	ML), I comply how slass maid he arrained silty sand-come and at 14" was also not

Engineers & Architects &	Soils Dat		<b>u1</b>		Sampie Subsan		GCQ7
	Scientists	G•		04			. 7 1( / )
	Scientists	C*.				.p.c	<del></del>
DATE		Site	Himon	Dumo	_ Proje	ct No	20026
DATE - TOTAL							
mag 913	<del></del>						
THVIE						•	
<del> </del>	<u>SLUSSER</u> PUCHALSK						
<u> 1011 </u>	PULHACIA	<u>-/</u>					
	11						
SAMPLE DEPTH	1- 15		<del></del>				
• ——	<del></del>	<del></del> -	·				
			·				
HYSICAL DESCRIPTI							
1-18 at area of gras	<i>*</i>						
land fill out 12 400	toet could	<u> </u>	the we	st edge	ot thi	giva	CTY POW
				<del></del>			
		<del></del>	······································		<del></del>		<del></del>
ESCRIPTION OF SUB	SAMPLE:	himple	consists	of white	5.14/1	yel he	u ceh,
ESCRIPTION OF SUB-	brown for	active	s -rare	<u>,                                      </u>			
	<del> </del>		<del></del>		<del> </del>	<del></del>	<del></del>
	<del></del>			<del></del>	<del></del>	<del></del>	<del></del>
NY OTHER CHARACT	TERISTICS C	F NO	TE: A +	thin lane	cof is	hito s	<u>:1+</u>
exists from 3-5"	eardly ichorl	hetu	pon fin	e silty	-aud	COLEC	inator
					<del></del>		

Donohue ,	Soils Data Form		Subsample 6508
Engineers & Architects &	& Scientists Site Hima	Dump	Project No. accae. ca
DATE 11/11/90 TIME 954	•		,
COLLECTOR TOH	PUCHALSK! "SLUSSER		•
SAMPLE DEPTH	3"-15"		
•			·
PHYSICAL DESCRIPT	TION OF SUBSAMPLING LO	CATION:	Near west edge of arker L-21. About
<del></del>			
with bontlett-trace	BSAMPLE: White areas and	A light,	gre; arens of silt (MU)
with hortlett-trace.  0-6" - Brown  6-13" Plack  13-15" White	BSAMPLE: White areas and I trace light reflow trach from silty same circles of fill same	ures /	greigarens of silt (ML)
with bootlett-trace.  0-6"-Provin  6-13" Plack  13-15" White  15" Grey	frace light collent fractions frace light same sound civilery fill same sitters same sitters same fixe same	wed .	
with bootlett-trace.  0-6"-Provin  6-13" Plack  13-15" White  15" Grey	frace light relicus fracti fram silty sand civilery fill se gray silt - Sand	wed .	

Donohue	Soils Dat	a Form		Sample Are Subsample	
Engineers & Architects	& Scientists	Site Himeo	ת יין ות	. Project No	. <u>20024.</u>
COLLECTOR I	A7 IN PIKUHUSKI RV SLUSSFR				
SAMPLE DEPTH -	8-18"	·			
· -					
PHYSICAL DESCRI	PTION OF SUBS	SAMPLING L	OCATION:	East edge irver; mar	of high kpr I-3
	30 tpot lups!	of aness	rad at si	trose, high	10x 1-3
PHYSICAL DESCRIPTION OF STATEMENT OF STATEMENT OF WORK	30 tpot lups!	of aness	rad at si	trose, high	10x 1-3
flat law fill can	UBSAMPLE: L	Of Arms of brown f	L) law toh	confir-i	inist with

Donohue ,	Soils Data	Form		Sample Area Subsample _	
Engineers & Architects &	Scientists	Site Himco	Duno	Project No.	30026.
	PUCHALSK!				
SAMPLE DEPTH _3-	-9"				
PHYSICAL DESCRIPTI	ON OF SUBS	AMPLING L	OCATION:	Surve gric	l point
DESCRIPTION OF SUB	SAMPLE: Li (SH) Sami	thite silt (M	L) interlayer	dor.	n 10472

			SHEET OF
Donohue	Soils D	ata Form	Soil Sample Area Lawff, 11 (as) Soil Subsample GS118 Dep
Engineers & Architects	& Scientists	Site Himco Duno	Project No. 20026. 023
DATE 11/12/40 TIME 947 COLLECTOR TOP	PUCHALSKI C SLUSSER		
SAMPLE DEPTH 1	1-4" - Cover G "-18" - Say	nglod Sampled	
PHYSICAL DESCRIP Nappannee St exter	tion of su	BSAMPLING LOCAT	ION: 60 feet west of
DESCRIPTION OF SU Silt is maist, lo	BSAMPLE: .	White silt with	atrace of rootlets.
ANY OTHER CHARA the white silt	CTERISTICS	OF NOTE: Did not	reach the base of
	· · · · · · · · · · · · · · · · · · ·		

					SHEET OF
	Donohue	Soils Dat	a Form		Subsample (751)
	Engineers & Arci	hitects & Scientists	Site Himco	Dumn	Project No. 20026.03
	DATE				· .
<u> </u>	SAMPLE DEPT	TH <u>4-8"</u>			
_	PHYSICAL DES	SCRIPTION OF SUB	SAMPLING L	OCATION:	Survey stake vailer
	DESCRIPTION	OF SUBSAMPLE: 1	Thite silt In	د) ری: الخد	light brown fractione
	ANY OTHER CI	HARACTERISTICS C	F NOTE: Co	ild not c	iauple at 8-23

(

A/P/HIMCO/AG7 - HIMCO/PUCHALSKI/TECH MEMO NO - 040391 - PAGE 1

TECHNICAL MEMORANDUM NUMBER

DATE: April 3, 1991

TO: Vanessa Harris - Site Manager

CC: Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

BPA Work Assignment No. 17-5L4J

Donohue Project No. 20026.024

Himco Dump RI/FS

#### WELL SAMPLING

#### Introduction

Ten groundwater monitoring wells installed during this investigation, and twenty-three previously installed wells were sampled at the Himco Dump site on November through January, 1991, to investigate the vertical and horizontal extent and degree of contamination of the uppermost unconsolidated

aquifer. Groundwater samples were collected by Eric Slusser, Steve Spiewak, Tracy Koach, and Anya Kirykowicz of Donohue & Associates, Inc. Groundwater samples were collected as described in Section 4.2.4 of the <a href="Final Field">Final Field</a>
<a href="Sampling Plan">Sampling Plan</a>, Himco Dump Remedial Investigation/Feasibility Study, Elkhart, Indiana. The well locations are shown in Figure 1. Completed purge and sample collection forms are in Appendix A. Table 1 contains the well bottom depths for all wells used in the sampling event.

#### Methods

All field meters were calibrated at the beginning of each day before sampling activities began. The sampling equipment was transported to each well location in plastic coolers.

After unlocking the protective casing, a photoionization detector was used to monitor the air near the casing top. A decontaminated water level measuring tape was then lowered into the well casings to obtain a water level and well bottom depth. This information was recorded on the purge and sample form. A well volume was calculated from this information so that at least five volumes could be removed during the purging process.

A YSI water quality meter was connected in-line with a Keck pump so that direct measurements of pH, conductivity, and temperature could be collected from the purge water. Purging continued until the readings have stabilized to pH  $\pm 0.1$  unit, conductivity  $\pm 10$  percent, and temperature to  $\pm 0.5$  °C. This

information was recorded on the purge and sample collection form. As soon as , the purge pump was removed, a second reading of the water level was obtained.

An alternative purging method was used for 4-inch diameter wells due to the large volumes of purge water which needed to be removed before sampling. A stainless steel submersible pump was used which pumped up to 20 gallons per minute. This 220-volt electric pump received its power from a portable gasoline generator.

A 500-gallon polyethylene tank was strapped to the back of a four-wheel drive pickup truck so that the purge water could be collected from each well and transported to the on-site 21,000-gallon frac tank. Measurements of pH, conductivity, and temperature were recorded periodically during the purging process with a combination pH, conductivity, temperature meter. The Keck pump was used to sample these wells following purging with the submersible pump.

Wells F-1 and F-3 were purged by bailing with a 1-inch diameter bailer.

Readings of pH, conductivity, and temperature were collected periodically as purging progressed.

The time between the completion of purging and the collection of the sample did not exceed 24 hours for any well. Table 4-2 of the Final Field Sampling Plan summarizes the sample container and preservative requirements. When a preservative was added to a sample, pH paper was used to ensure that adequate preservative was added.

Samples obtained for dissolved metals or bromide analysis were collected in a one liter polyethylene container for filtration at the field trailer. Samples were filtered with 0.45 micron paper using a millipore filtration unit in combination with nitrogen supplied by a pressurized tank.

All samples were stored in coolers with ice until custody was relinquished to the sample custodian at the field trailer.

Outer parts of the Keck pump and the one-inch bailer, which came into contact with groundwater and were used for sample collection, were cleaned between wells with an Alconox and tap water wash, a tap water rinse, an isopropanol rinse, and two deionized water rinses. The inner parts of the Keck pump and the submersible purge pump were cleaned by pumping distilled water through the system, or in the case of the purge pump, by rinsing the inside and outside several times with distilled water.

#### <u>Deviations</u>

Wells F-1 and F-3 were purged and sampled with a bailer instead of a Keck pump as described in the sampling plan. A Keck pump was too large to fit in these wells. Using a bailer did not effect the sample integrity.

A 3-inch submersible pump was used to purge the 4-inch diameter wells because a more rapid purging method than a Keck pump was needed to remove the large

A/P/HIMCO/AG7 - HIMCO/PUCHALSKI/TECH MEMO NO \_\_\_ - 040391 - PAGE 5

volume of groundwater from these wells. The purging was followed with , sampling accomplished with a Keck pump.

#### Summary of Results

Twenty-three wells installed in 1977 and 1979 by the U.S.G.S. and ten wells installed by Donohue for this investigation were sampled for groundwater.

Large volumes of purge water were required to be removed to purge the required five-well volumes because of the 4-inch diameter and extreme depth (up to 495 feet) of some of the U.S.G.S. wells.

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### WELL DESIGNATION

### DEPTH TO SCREEN BOTTOM (in ft.)

B-1	495	
B-2	12	
B-3	129	
B-4	173	
CP-1	20	
E-2	17	
E-3	174	
F-1	32	
F-2	153	
F-3	15	
G-1	50	
G-3	169	
I-1	172	
I-2	15	
I-3	35	
J-1	40	
J-2	18	
J-3	152	
M-1	24	
M-2	103	
N-1	30	
0-1	 20	
Q-1	20	

WT-101A*	•	18.75
WT-102A*		18.50
WT-103A*		18.50
WT-104A*	<del></del>	18.80
WT-105A*		18.50
WT-106A*		21.25
P-101B*		100.50
P-101C*		167.50
P-102B*		67.90
P-102C*		162.00

\* Wells installed by Donohue during this investigation. All others were installed by the U.S.G.S. in 1977 and 1979.

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### APPENDIX A

WELL PURGE AND SAMPLE COLLECTION FORMS

### Well Purging and Sample Collection

. //-/

Dare 1/-2 9-30

uipment		Airlift		N2 Lift_		In. Baile	r	Length_	F	t. Material
						Description of site				
ell No.	Depth to Water	Depth to Bottom	Volume Calculated	Volume Volume	Depth After	ρН	Cond.	Temp	Turbidity Y/N	Comments
15:55	30.74	29.29	.3 32							
160.5						-735	143	11.3	Y	SLICHT GIL
16.10				35		7 63	256	12.5	<b>Y</b>	SIGNT (CANYON)
				70		77.63	دىد.	13.6		1000 4116
16,00				10.5		762	.502	120		•
16250				4.0		7.61	3.4	43.7	N	
16:23				17.5		7.60	. 3.9	13.7	J	
	.									
1030	-16	- 12: 1 4/20								
1,45		54								DESERVED OXYG
		277								= 425
								1		
						<del></del>				
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w." tes_C	63 X =	26.34 ء	3 3 2		l well	, , (	<i>₩.</i>	29.2	4. 8.45	: 20.34

### Well Purging and Sample Collection

Engineers & Architects

Project No.	20020 623	Site	co DIMP			
Method of Purging	Pumped	Bailed				
		N2 Lift			Ft. Material	
Pump KOCK Ma	nufacturer	Diameter	Description a	f site		
				(anoitione)		

Well No.	Depth to Water	Depth to Bottom	Volume Calculated (gal.)	Volume Removed (gal.)	Depth After	ρН	Cond.	Temp	Turbidity Y/N	Comments
				·						
وق ورسل	2.16	سي پيري	3.32							
كَدُّ دُرِ السَّنِي				0		1.8	0.533	1.2.0	Slighty	
C-1 1538				3.5		0.89	0.527	12.5	C/FAC	
C-1-1540				7.0			0.524			
6-1 1542				10.5		8.3E	0.529	12.6	CLEAR	
C-1-1544	_			14.0		14.75	C.515	12.6	CLEAL	SH, 4575 of to
0-1-1546				17.5		9.17	0.514	12·t	CIGHS	shiney's of te
C 1 1548				21.0		8.36	C.51.2	126	CLEAR	
0-1550				24.5		3.11			CLEAR	
C-1 1552	٠,			28.0		8.00	0.540	12.7	CLEAR	
1554	•			31.5		7.95	0.509			
1559				35.0		7.90	U.50t	12.6	CLEAR	
				385	AK/3/40					
C-1 This					العال بهذ					SAMPLINE
C-1-162D					TQ 9.15					
										DISOLVED OXYGEN
	•									= 2.5
										· · · · · · · · · · · · · · · · · · ·
		1								
							ĺ		<u> </u>	

Notes 0-1: 24.5-9.16:20.34; 20.34 x 0.163 = 3.32; 3.32 x 5=16.6

1790

## Well Purging and Sample Collection

Engineers	; & Arct	nitects									
Project No.		عدين	3	Site _	HIV	KS 517	۴				
Method of Pu	rging Pun	nped	Bailer	d							
Equipment		Airlift		N2 Lift_		In. Bail	er	Length_	F	t. Material	
Pump KCK	Manufac	cturer		Dia	imeter	Descrip	otion of site	Condition	al extreet	1 W. 454 LD 40 5	: s
Well No.	Depth to Water	Depth to Bottom	Volume Calculated (gal.)	Volume Removed (gal.)	Depth After	рН	Cond.	Temp	Turbidity Y/N	Comments	
4.7				ت		7.69	.186	15.5		<sup>9</sup> دور	
124	497	33.69	305	3,1		7.61	. 444	14.2	4 1,00	ית חבינני ושאה	
			1			}	}	1 1	-		

		Time	Water	Bottom	Calculated (gal.)	(gal.)	After	Pri	Cond.	i emp	Y/N	Comments
						ئ		269	.786	15.5		جرور
		سينين	497	3.69	305	.3,1		7.61	. 454	122	4 1001	CRECHY SILANT
		1355				6.2		7.61	.572	,	)	LT GREW SH MIT
		12.7				93		257	300	1 1	4 52,67	i
	وبسر	1,3				124		7.51	.561		1	POPLET BON THE
		110				155		フィラ	.553	13.9	4 7616,87	- 11
	19	1/.9	برج	wi som	<i>j</i>							
	1/2	123	بدائير	ispl into			4.97					
				·				<u> </u>				i
												D.o. = 3.3
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Notes 211 will	CILSKIN 72-3 05 = 1 well volume	LC = 23 69-497-18726

## Well Purging and Sample Collection

أنج أن أسكوما

Engineers											
Project No.	200	36 130	3	Site _	المبر	(con)	In f		<del></del>		
Memod of Pu	irging Pun	nped	Baile	d					<del> </del>		
Equipment_		_Airlift_		_N2 Lift.		in. Baile	ri	ength.	F	t. Material	
Pump_KCTK	Manutac	turer		DiameterDescription of site <u>حرام جرام (۱۳۵۶)</u> (weather, temp.,soll, conditional)							
Well No.	Depth to Water	Depth to Bottom	Volume Calculated (gal.)	Volume Removed (gal.)	Depth After	рН	Çond.	Temp	Turbidity Y/N	Comments	
WT 101 A										·	
21/3	11.36	1877	121	1		745	,950	11.1	1111 + 17	ilicy reminis	
16:34				1.5		745	.48.4	11.7	51.3669 44.660	Saling - yellonin	
ما تن ال				3 c		744	954	<i>Q.</i> 1	#= 19.1	1	
16:1				4.5		741	.977	12.2	V 311/42/2		
1000				6.0		7 3 %	971	123	به اظهواات به استخدا		
16.13	·			75		7. 35	965	12.3	المعقدة والا	J	
	•										
1621	50	1-120	- -								
1653			عره: سو				_			•	
										Dissolve XYGGN	
	•									5.35°	
										<del></del>	
Notes 2	0.		C-1c.	1.17 0	3019 =	) well v	» I .	73	70 -1621	: 744 fr	
			1637								
				·,	<i>-</i>						
شيده. ي	<u> ج امن</u>	c p. 5 0.	1 151 32.	e model	<u> </u>				····		

### Well Purging and Sample Collection

1-1/15.4

Engineers & Architects

Project No.		J-20.5 6	: C=27	Site _	<del>., , </del>	HITC:	VICE F			
Method of Pu									<del></del>	·
										t. Material
Pump Kitu	<_Manufac	cturer		Di	ameter	Description of site 11 AVE			UNI UZZ MINUA	V42 واحد (ارمد
<del></del>			<del> </del>							
Well No			Volume	Volume	Dead			T	المراجعة	
Time	Depth to Water	Depth to Sottom	Calculated		Depth After	рH	Cond.	Temp	Turbidity Y/N	Comments
WT 10.A	<del></del>				<del></del>	743	1.44	16		
14:5	التي المرابر	18.K	1.25			-7 (13	1:47	1/6 7	4-50	(1430)
4 22				1.5		7.116	1.554	11.7	+- 7.4	·
19:24				30		7 478	1.054	4.1	<i>k'</i>	<del></del>
19.37	<del></del>			4.7		7.08	1. = 55		A.	
4.21				(0		796	1 c5-6		N	
14.21	<del></del>			7.5		7.95	1 =53		N	
	`									
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1455	اربر ایمان دربر ایمان	i i								DISSEVED DEVERD
		7.7			<del></del>					6.41
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		Cale.								_
votes2*				•					16-16.3	=786 1.
<del></del>	<u> </u>	63 Y 7	186 =	125	<i>iz::1.</i> ,	= 1 h	ell val	<u></u>		
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## Weil Purging and Sample Collection

WT 1339

Engineers					// a		<u>^</u>			
Project No.			_			ו אין כי		·		
Method of Pu	-					la Baile	· · · · ·			t. Material
										t. Material
Pump <u> </u>	Manuta	cturer		الـــــا	2me(er	(westher,	i lice, .qmer	onditio	nsj	
									·	
Well No.	Depth to Water	Depth to Sattom	Volume Calculated (gal.)	Volume Removed (gal.)	Depth After	рН	Cond.	Temp	Turbidity Y/N	Comments
WT 103/1										
,135	نژهکتر	18.48	2.15	1		7.42	. 445-	121	× ,=1. ×1/,	(1147)
11:51				2.5		7.13	,533	14.4	~	
11:53				.5 ~		5 13	,539	154	N	
11:54				75		408	537	15.5		
11.86				16 0	····	4 55	. 537	15.5		
11:51				12.5		803	. 334	i5. L		
12.3	500	PL . N.								
122					5 39					PISSULING ONCE
										2.21
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### Well Purging and Sample Collection

WT10-15

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				9.5		8.53	C.162	11.3	<u> </u>	
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### Well Purging and Sample Collection

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Date //-25-60

Engineers & Architects

Equipment		Airtift		N2 Lift		In, Baile	r	Length_	F	t. Material	
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### Well Purging and Sample Collection

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Engineers & Architects

	16.0 K	Airlitt_		N2_LiftIn. BailerLengthFt. M					t. Material			
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					1480							
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1/9/91

.Date \_

# Donohue

### Well Purging and Sample Collection

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Project No.						mes (	عسه			
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2.31				75		7.52	1501	11/0	y	Miller Thirtide Miller V Standy two-ban
4 11				40		3.44	. 776	115	7	V SINAHT +HIPS
10 21				105		8.48	. 159	11.5	Y	Milky V Slightly turbic milky
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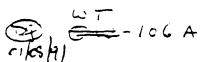
## Well Purging and Sample Collection

Engineers	s & Arct	nitects								
Project No.							~ p			
Method of Pu										
Equipment_		Airlift		N2 Lift		In. Baile	rL	ength.		Ft. Material
Pump	Manufa	cturerK	cck	Di	iameter	Descript	ion of site.	ه او ح onditio	<u>ور داد.</u> (معر	Ft. Material
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Well Purging and Sample Collection



Engineers & Architects

Project No.	2002	602	ζ	Site _	Himo	<u>.</u> D	<u>. b</u>			
Aethod of Pu	_									
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ump <u>×</u>	Manufa	cturer	Kerk	Di	ameter <u>//</u>	Descript (weather,	tion of site	onditiono:	$\frac{1}{1} = \frac{1}{1}$	ending mid 2
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16:62				4		7. 23	1.566	7.4	2	
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Well Purging and Sample Collection

Engineers	s & Arci	nitects									
Project No.							٠ ٢٠				
Method of Pu											
										t. Material	
Pump Y	Manufa	cturer <u>K</u>	Ck_	Di	ameter <u>//</u>	Descript	ion of site.	اورح onditio	$i = c_{loc}$	i, mid 2 w	
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Well No.	Depth to Water	Depth to Bottom	Volume Calculated (gal.)	Volume Removed (gal.)	Depth After	рН	Cond.	Temp	Turbidity- Y/N		
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15.51				Ŀ		7.50	,197	16.5	N		
14:51				۶	<u> </u>	789	, 200	10.5	$\sim$		
19:54				10		7.51	. 212	1,-	٧.		
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# Donohue

Well Purging and Sample Collection

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Engineers	& Architects	•••

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	ime Water	Bottom	(der)	(847)	Depth After	рН	Cond.	Temp	Turbidity	Comments
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# Donohue

## Well Purging and Sample Collection

Engineers & Architects

Project No	25026 023	Site	Himio D.	1	·
Method of Purging	Pumped Y Ba	iled			
Equipment	Airlift	N2 Lift	In. Bailer	Length	Ft. Material
Pump <u>V</u> Ma	nufacturer <u>Keck</u>	Diame	ter 1,75 Description (westher, temp	of site	cold m. 120

Well No.	Depth to Water	Depth to Bottom	Volume Calculated (gal.)	Volume Removed (gal.)	Depth After	рН	Cond.	Temp	Turbidity Y/N	Соттепт
2 - 1025	9.11	61.35	9.49	10		7.46	,454	11.5	2	MUCE 514
14:51				20		745	.456	11.4	~	
15:a				20		745	.455	11.4	W	
15.14				40		7 45	.455	113	'n	
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# Donohue

Well Purging and Sample Collection

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Project No. 2002/023 Site Hims Damp

Method of Purging Pumped Bailed

Equipment \_\_\_\_\_ Airlift \_\_\_\_\_ N2 Lift \_\_\_\_\_ In. Bailer \_\_\_\_ Length \_\_\_\_ Ft. Material \_\_\_\_

Pump Manufacturer Keck Diameter 1175 Description of site Cold (weather, temp., soll, conditions)

Some 55 mah is not he to 12 mph

Well No.	Depth to Water	Depth to Bottom	Volume Calculated (gal.)	Volume Removed (gal.)	Depth After	рН	Cond.	Temp	Y/N	
13.18	745	18.16	1.42	1.5		7.30	,4.70	13	γ	OVA = 0
13:20				3.0		7.30	5.60	11.2	7	L+ +-a
13.21				4.5		7.28	. 862	11.2	~	
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13:3				7.5-		7.27	YLY	/1.1	₩	
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#### TECHNICAL MEMORANDUM NUMBER 9

DATE: January 28, 1991

TO: Vanessa Harris - Site Manager

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump RI/FS

#### SURFACE WATER/SEDIMENT SAMPLING

#### Introduction

Surface water and sediment samples were taken at four locations at each of the three ponds at the Himco Dump Site in Elkhart, Indiana, to investigate the degree and extent of surface water and sediment contamination. Sampling was done by Eric Slusser and Tom Puchalski of Donohue & Associates, Inc., on October 17, 18, 19, and 20, 1991. This memorandum describes the sampling methods used in the field as compared to the methods described in the Final Field Sampling Plan.

#### Methods

Three surface water bodies are present at the Himco Dump Site. The two smaller ponds are located at the southwestern portion of the site. The larger of these two ponds is "L"-shaped with the longer channel oriented north-south and the shorter channel oriented east-west. Both channels of the "L"-shaped pond are approximately 100 feet wide and 400 feet long. The smaller pond is directly northeast of the "L"-shaped pond and is approximately 100 by 170 feet. The shorelines and bottoms of these two ponds are generally gravel and sand. Their depths are unknown, but because they were excavated with a backhoe, they are assumed to be less than 15 feet deep.

The gravel pit pond is the largest surface water body on-site. It is located in the northeast corner of the study area. It is approximately 850 feet wide in the east-west direction and 400 to 550 feet wide in the north-south direction. The depth of the gravel pit pond is unknown. The shoreline and bottom is generally gravel and sand.

The four locations at each of the three ponds were selected so that the north, south, east, and west shorelines were sampled (Figure 1). A description of the sampling location was written on the surface water and sediment field data `orm (Appendix A). A photograph was taken of each sample location.



The surface water samples were collected before the sediment samples and on different days at all locations. Surface water was collected by lowering the capped sample bottle below the surface and opening it under water to allow the sample to trickle in. The bottle was then capped under water and brought back up out of the water. The water sample was put in a cooler with ice to be transported to the field trailer. Readings of pH, conductivity, temperature, and dissolved oxygen were taken in the back of a pickup truck at the edge of the pond immediately after carrying them from each location (Table 1).

Sediment samples were collected at the same locations as were surface water samples at approximately 2 to 3 feet offshore at water depths which ranged from 0 to 2 feet. A shovel was used to collect the sample from approximately 0 to 4 inches. Sediment samples were placed in a stainless steel bowl, and the excess water was poured off. Grab samples for volatile analysis were immediately placed in two 4-oz. jars with no headspace. The remainder of the sample was mixed using a stainless steel spoon. The resultant homogeneous mixture was spread evenly in the bowl. The sediment was divided into four quadrants. Small portions were taken from each quadrant for each jar until the remaining jars were filled. A visual description, including texture and color, was written on the field data form.

The shovel, sample composite bowl, and mixing spoon were decontaminated between sample locations by:

- 1. Alconox and tap water water wash.
- 2. A tap water rinse.
- 3. An isopropanol rinse.
- 4. Two deionized or distilled water rinses.

Isopropanol rinsates were collected in a 5-gallon bucket and covered until eventual discharge into the on-site frac tank.

#### Deviations

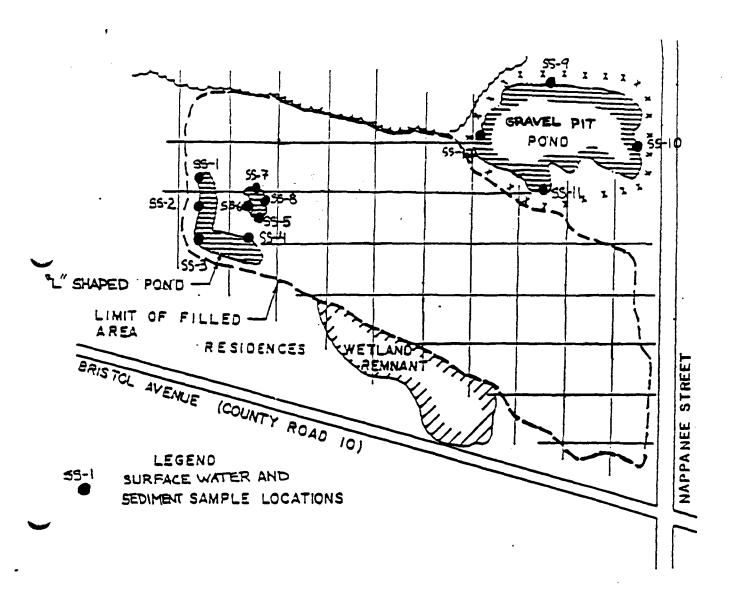
A shovel was used instead of a bucket to collect the sediment sample because the sediment was consolidated by plant roots in some locations to the degree that a bucket could not scrape up the required sample volume.

#### Summary of Results

Twelve surface water and twelve sediment samples were collected. No visual evidence of contamination was apparent in any of these samples. Figure 1 shows the surface water/sediment sampling locations, and Appendix A contains the surface water and sediment field data forms, which describe the appearance of the samples.

TP/ke

A/R/HIMCO/AB4



SOURCE: US EPA, AUGUST, 1986

1000 500

SCALE: FEET SCALE IS APPROXIMATE

Donohue APPROXIMATE SITE SAMPLING LOCATIONS



FIELD SAMPLING PLAN HIMCO DUMP SITE ELKHART, INDIANA

Engineers • Armitects • Scientists

TABLE 1

Sample Number	<u>Date</u>	T · F	рH	Conductivity ms/cm	DO mg/l
SS-1	10/17/90	69	8.11	792	6
SS-2	10/18/90	50.2	8.02	753	, 9
SS-3	10/18/90	48.5	8.31	704	8.4
SS-4	10/18/90	49.8	8.27	707	8.6
SS-5	10/18/90	49.6	7.93	534	8.4
SS-6	10/18/90	49.4	7.58	538	5.8
SS-7 ·	10/18/90	48.3	7.06	431	3.2
SS-8	10/19/90	46.8	8.06	471	7.2
SS-9	10/19/90	55.6	8.06	637 ·	7.2
ss-10	10/19/90	60.0	7.99	659	6.4
SS-11	10/19/90	61.7	8.00	693	6.7
SS-12 ·	10/19/90	61.7	8.00	693	6.7

A/R/HIMCO/AB4

#### APPENDIX A

SURFACE WATER AND SEDIMENT FIELD DATA FORMS

Donohue	SURFACE WATE	R FIELD DATA	SITE IDENTIFIER NUMBE
Emilian of CAn only to	& SEDIMENT	CONTAMINATION SL	JRVEY 55-1 51
	TER	SENIT DATE	EUT 112/90
ATE 10117190 TIME 2:00 AM	<del></del>		<del></del>
<del></del>	bakki	TIME 114	<del></del>
	SSEV	COLLECTOR	Tom Pulicitaki
		-	Eric Slusser
VATER DEPTH 1 - foo	<u>+</u>	SAME LO	CATION
н <u> </u>			
EMPERATURE OF WATER	69°F		-4 brown
OLOR <u>Clear</u>	•	SEP D	ay Soul Black Huck It
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2040 792 us/	<u>m</u> '		
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NY OTHER CHARACTERISTICS	f share 3/4" pel	11ac Diam Diam	e medium scha
WITH a MARP O	+ Shawa 14 per	10162"	
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Donohue	SURFACE WATE	R FIELD DATA	SITE IDENTIFIER NUMBER
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DATE 10/17/40 WATER  DATE 10/17/40 WATER  TOP 10/17/40 WATER  DOLLECTOR ERIC SUSSER  TOP PUCHHCS/M  DOROTHER DOWN	<u> </u>		SEDIMENT 10/12/90 1440 TOM PUCHALIKI ERIC SLUSSEP
NATER DEPTH 2  OH 8.02  TEMPERATURE OF WATER 50.  COLOR CLEAT  DOOR NOW  CLARITY CLOAT - NOW  CLOND 753 M5/cm  DO 9 Mg/l  OHYSICAL DESCRIPTION OF SAMPLIN  FICH POWL Off OF	turbid  G POINT 125' so	uth of north such sandy mark	SAME LOCHTION  LE GROWN GROWSHIM, black  Norre of L shappel  Acoports.
•	<i>e 1</i> : .		
NY OTHER CHARACTERISTICS OF NO	OTE Soliment	is organic rich	

Donohue	SURFACE WATE	R FIELD DATA	SITE IDE	NTIFIER NUMBER
Emina o. & An Oliva to	\$ SEDIMENT	CONTAMINATION	SURVEY	(52-3) 50
WATER			SEDI	MENT
DATE 10/8/90			10/17/90	•
TIME			<u>3'830 7</u>	m
COLLECTOR _ ERIC SLUSSE			TOM PUCHI	<del>a</del> cski
TOM PIXHAL			ERIC SU	SSER
derothea d	XW N S			
ATER DEPTH				
H Cabo	8.31			
EMPERATURE OF WATER	35°F			
COLORCIPCY	1		Lt Brown	Sand
DOOR None		•	None	
CLARITY Clock - Non	turbia	ل کیزی		
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Donohue	SURFACE WA	TER FIELD DATA	SITE IDENTIFIER NUMBE
COMPANY IN A Accordance to	& SEDIMENT	CONTAMINATION SURVEY	(\$5-CE)
WATER			SEDIMENT
ITE ICHAID			10/18/90
ME 10255 AH		_	1445
DLLECTOR FRIC SLIKE	FR	_	SLUSSER
TOM PLICHE			PUCHALSKI
DOROTHEA D	owns		
ATER DEPTH			٦٠'٠
7.93			
MPERATURE OF WATER	<u> 40 /-</u>		
DLOR Clear	770	0 ~	so on A black and
			wn sawi black much
or <u>Nore</u> Arity <u>Cloar - Ven t</u>	ام ا ما ما ما		73.2
20 84 -11		of earth whose of small	
			•
IY OTHER CHARACTERISTICS C	OF NOTE Solimon+	-Gravelly Sand & much	, gravil - most 1/2"
Y OTHER CHARACTERISTICS C	OF NOTE Sediment	-Gravelly Sand & mick	, gravel - wost 1/2"
Y OTHER CHARACTERISTICS C	OF NOTE Sediment	-Gravelly Sand & mick	, gravel - wost 1/2"
Y OTHER CHARACTERISTICS C	OF NOTE Sedimont	-Gravelly Sand & mick	, gravel - wost 1/2"

Donohue	SURFACE WATE	R FIELD DATA	SITE IDENTIFIER NUMBE
Francisco, CAn Onto to	SEDIMENT	CONTAMINATION SURVE	Y (3) (3)
WATER DATE 101000 TIME 11515 AM COLLECTOR ERIC SLUKETO TOM PUCHAL DORUTHEA DOW	5KI	TON P	Diment Inclad 305 UCHALSKI SLUSSER
WATER DEPTH	<del></del>	Lt brow	n sand
DOOR None  CLARITY Slight turbid  COND 538  DO 5.8  PHYSICAL DESCRIPTION OF SAMPLING  L Chapped Fish powd of	POINT = 25 f	None	
iny other characteristics of not moditum sand 75%, and aravel	TE Sodiment so War, course o		1, light bown 13% 12" stan

Donohue	SURFACE WATER	FIELD DATA	SITE IDEN	TIFIER NUMBER
	SEDIMENT	CONTAMINATION SUR	VEY	(3) (5)
UATER DATE IDITION TIME 1135 AH COLLECTOR NOROTHEA DOW FRIC SLUSSER TOM PUCHALSK		TO	EDIKENT JOIGCIGO B34 AM M PUCHALS RIC SLUSSE	
NATER DEPTH 1' DH 7.06 TEMPERATURE OF WATER 48.	3 0 F	4	1	<del></del>
COLOR Light brown  DOOR Stight Has  CLARITY Slight turbicl  COND 431  DO 3.2  PHYSICAL DESCRIPTION OF SAMPLIN	G POINT 5	Str	ong Hz S	
Middle of north shore of Sheen on water - meta	11.	rattails.		
my other characteristics of m with a trace of slord	ore Sediment is gul & 14" dia.	fine grained SM - Silty sc	angular s	and soud

Donohue	SU	RFACE WAT	ER FIELD DATA		STE IDENTIFIER NUMBER
		DIMENT	CONTAMINATION	N SURVEY	(37-3 <del>2</del> )
I In many res. C. Att Inter to					
SURFACE WITTER					DIMENT
DATE 10 1 19 19 0	<del> </del>				920
TIME <u>820</u>	· O : - O ! - A				
COLLECTOR TOM PIXE			•		PUCHALSKI
ERIC SLL	SER		•	ERIC	SILGGER
WATER DEPTH					3"
pH 8.06		<del>.</del>			<del></del>
TEMPERATURE OF WATER	46.8	<del></del>			
COLOR Clear	10.0	<del></del>		. 4	
	·	<del></del>		- <i>G</i>	7
ODOR <u>Nove</u>	<del> </del>	<del></del>		/y	one
CLARITY <u>Clear</u>	<del></del>	<del></del>			
000 7.2				_	_
DO 7.2 PHYSICAL DESCRIPTION OF S FICH TIOLD MIDS	AMPLING POI	INT mist is	hore of small	Doud war	thof L share
fich - A no de	n' hat	elime		1	
Total India	FAIR F. C.	- 5/201	<del></del>		·
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			<del></del>		
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	<del></del>			<u></u>	
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			·		
ANY OTHER CHARACTERISTIC	S OF NOTE	Slight shown	on water - non in	ridoscent	
	-	<del>-                                    </del>			
			·	<u> </u>	
	•		<u> </u>		
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Donohue	SURFACE WATER FIELD DATA	SITE IDENTIFIER NUMBER
	CONTAMINATION SURVEY	55-07 50-10
WATER	<=	DIMERT
DATE 10/19/90		20/90
TIME /000		<u> 1050</u> .
COLLECTOR TOM PUCHALSKI	<del></del>	PUCHALSKI
ERIC SLUSSER	<b>.</b>	SLUSSER
DOROTHEA DO	WNS	
NATER DEPTH	•	1
pH	<del>randa da da da</del>	·
TEMPERATURE OF WATER55.6		
COLOR Clear		
DOOR None		5/3 ROWA
CLARITY Clar		one.
COND 637	<del></del>	
24 3		
PHYSICAL DESCRIPTION OF SAMPLING	3 POINT Midprint of north shore of	quarry 2 feet
offshore		
		·
		·
		·
		<del></del>
	•	
	•	
ANY OTHER CHARACTERISTICS OF NO	TE sediment is silt, cand / 5h) w.	tha trace of
1/2" slord gul		
<del></del>		

	SURFACE WATE	R FIELD DATA	SIL	DENTIFIER NUM
Donohue  Marketes S An India to	E SEDIMENT		N SURVEY	57-10
WATER			SEDIMENT	
ATÉ 1010/00			10/20/90	
ME 1020			1118 47	+
DLLECTOR ERIC SLUSSER	2		TOM PUCH	ALSKI
TOM PUCHAL			ERIC SLU	SSE
DOROTHEA DOU	SN2			
ATER DEPTH			11	•
7.99				
MPERATURE OF WATER 60	.0			
DLOR <u>Clear</u>			10 YR .5/3	Econo
OR None	<del></del>		None	
ARITY Clear	<del></del>			
ND 659 MS/C	m			
DO G.4 DESCRIPTION OF SAME	n ma/l		,	
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Y OTHER CHARACTERISTICS OF	NOTE <u>Sodimont</u>	s silty sand	(5η) ω:Ψ, c	a trace int
Y OTHER CHARACTERISTICS OF	NOTE <u>Sodiment</u>	s silty sand	(sn) ω:4,	a trace int
Y OTHER CHARACTERISTICS OF	NOTE <u>Sedimont</u>	s silty sand	(sn) ω:4, c	a trace inf
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Y OTHER CHARACTERISTICS OF	NOTE <u>Sodimont</u>	s xilty sand	(sn) ω:Ψ, α	a trace of

Donohue	SURFACE WAT	ER FIELD DATA		SITE IDENTIFIER NUMBER
Francisco Chalmerte.	SEDIMENT	CONTAMINATIO	N SURVEY	\$5-11 \$5-11
DATE 10/19/90  TIME 1050  COLLECTOR TOM PUCHALSK  ERIC SLIKKER				190
DOROTHEA DOW  WATER DEPTH			1-4	<del>20</del> +
COLOR <u>Clear</u> ODOR <u>None</u> CLARITY <u>Clear</u> COND 693			10 YR 5 None	Brown & N2/B
PHYSICAL DESCRIPTION OF SAMPLIN midpoint of shere in	bay near fo	off south she	one of a	uarry near
ANY OTHER CHARACTERISTICS OF NO 1/2-1/4" Sort out, 30 ANACS MIXED WITH	To for any san	t is GAU gra ug soud son	uelly Sou we block	1 70% 's:/tiu

Donohue	SURFACE WATE	R FIELD DATA	SITE IDENTIFIER NUMBER
્	SEDIMENT	CONTAMINATION SURVE	Y (35-12)
WATER		<	EDIMENT
DATE 10/14/40			10/20/90
TIME		<del></del>	227
COLLECTOR TOM PUCHACSE	1	701	1 PUCHALSKI
FRIC SLUSSER			ic silker
DOROTHEA DOW	ins		,
WATER DEPTH			1
pH 800			
TEMPERATURE OF WATER 6/			
COLOR Clear		104	F S/2 Brown
ODOR None	<del></del>	Ve	C 5/3 Brown
CLARITY ( /ear		<del></del>	,
COND 693 NS/CH	<i>y</i>		
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off slave	ING POINT TO DOWN	AT WEST SINCE OF Q	Wirry to I toll
off shore			
			<del> </del>
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	•	<u>,</u>	
:	<b>*</b>		
			•
ANY OTHER CHARACTERISTICS OF N	NOTE <u>Sodiment</u>	is arough, sand.	70% fraccine
any other characteristics of M angular Sand 35% in samples	sterd avl	16-12" Some 3	"-net included
in samples		·	
	·		
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#### TECHNICAL MEMORANDUM NUMBER 10

DATE: January 29, 1991

TO: Vanessa Harris - Site Manager

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump

#### TEST PITS

#### Introduction

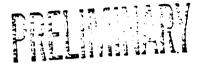
Twenty test pits were excavated at the Himco Dump Site in Elkhart, Indiana, on November 28, 29, 30, and December 1 to determine if metal drums are buried at the site. All excavations were carried out in Level B personal protection. Excavations were dug by Chris Goodwin and Mike Donohue of John Mathes and Associates, Inc. Air monitoring of the excavation and logging of the pit were done by Tom Puchalski of Donohue & Associates, Inc. Perimeter monitoring downwind of the excavation was done by Anya Kirykowicz of Donohue & Associates, Inc. The purpose of this memo is to describe the test pit excavation methods and results as they relate to the Final Field Sampling Plan.

#### Methods

Test pit excavation locations were determined by Rob Stenson and Tom Puchalski of Donohue & Associates, Inc., from a magnetic anomaly map produced for the site by STS Consultants. Excavation procedures are described in Section 4.9 of the <a href="Final Field Sampling Plan">Final Field Sampling Plan</a>. Himco Dump Remedial Investigation/Feasibility Study. Elkhart. Indiana.

A separate memorandum provided by STS Consultants describes the field and data evaluation methods they used to perform the EM, Magnetic survey, and produce anomaly maps (Appendix A).

Once the locations of the test pits were determined and marked on the magnetic anomaly map, their locations were staked in the field by reference to the site survey grid stakes. After defining the work zone with caution tape and setting up the Level B equipment, the excavation was ready to begin. As the excavation proceeded, the Donohue geologist described the types of waste and soil being excavated by completing a trench log. Readings on air monitoring equipment were periodically recorded on an atmospheric monitoring log. Air



monitoring was also performed continuously by a second person at the downwind side of the excavation outside of the work zone. Readings on a PID and OVA,  $\rm H_2S$ ,  $\rm \$O_2$ , LEL, and CO were all monitored. Photographs were taken of large metal objects or other objects of significance. The bottom of the pit was defined by reaching the water table or approximately 15 feet, whichever was shallower. Upon completion of the pit, a measuring tape was used to define the depth of the excavation and the depths to any significant waste or soil horizons. Following the completion of trench logs, the excavation was immediately backfilled. Prior to surveying in the trench locations, all were staked with wooden lath and survey tape.

Upon demobilization from the site, the backhoe was decontaminated by steam cleaning at the decontamination pad. Wastewater generated from steam cleaning activities was collected by the decontamination pad and pumped by sump pump from the collection pit to the on-site frac tank.

#### Deviations

The backhoe was decontaminated once before demobilization from the site. Decontamination was not required upon mobilization or in between test pit locations as described in the Final Field Sampling Plan because no sampling for chemical analysis was performed, and all test pit locations were on-site in areas of former waste disposal.

#### Summary of Results

Twenty test pit locations were excavated. Each test pit was twenty-five feet long. Some test pit locations were along the same direction and a direct extension of adjoining test pits, in some cases, producing up to a 100-foot long continuous trench. Test pit locations are provided in Figure 1. Completed trench log forms are included in Appendix.

X

Other than a few scarce 55-gallon drum lids, one rusted and crushed 55-gallon drum which may have been a burn barrel for garbage, and a few 25-gallon crushed drums, no significant buried drums were discovered. Other metallic objects were discovered which can account for the observed magnetic anomalies. Excavated metallic objects consist of scrap metal strips and angle iron, pipes, sheet metal, refrigerator condensers, wire, lawn mower parts, car bumpers, metal boxes, car mufflers, and pails.

A summary of the information contained in the trench logs and atmospheric monitoring logs follows.

#### Trench 1-4

Trenches 1-4 were excavated from northeast to southwest adjacent to each other to form one long 100-foot trench along hummocky terrain. Two iron beams, concrete, and metal pipe was protruding from the ground surface in several places. Grass covered hummocks were approximately six feet higher than the surrounding terrain. The spoils were piled on the down-wind east side of the

trench. The trench was originally approximately 5 feet wide but this dimension widened to 10 feet at the north and south 25 feet due to cave-in. The trench depth varied from 6 feet on the northeast end to 12 feet on the southwest.

The stratigraphy of TP-1 through TP-4 (TP-4) can be summarized as follows. A thin 0.5 to 2.0-foot layer of silty sand topsoil fill overlies a white calcium sulfate layer which grades to black at its base. The calcium sulfate layer pinches out in TP-2 but is present as a brown and white silt layer in TP-3. It was not present in TP-4, but is correlative with black and white stringers 2 to 0.5 feet thick.

Municipal waste, from 2 to 5 feet thick, described in detail in the trench log, is present below the calcium sulfate. Water began flowing into the trench at 7 feet so the trench was not excavated deeper on this end. As the trench excavation proceeded south, no new water sources began flowing. TP-2, therefore, was excavated deeper to 11 feet. The waste layer pinched to about one foot thick in TP-2.

Metal objects were found which can explain the anomaly mapped for this area. Scrap metal strips, steel I-beams, metal pipe, sheet metal, and two drum lids were found within the waste layer in TP-1, 2, 3, and 4.

#### Air Monitoring

Air monitoring of TP-1 through TP-4 produced a high reading of 30 to 40 ppm and a low of 2 ppm on an OVA. No positive readings were produced on the PID, radiation detector, or lumidor. OVA readings down-wind of the trench at the work zone boundary were sporadic. Reading between 10 and 60 ppm lasted about 5 seconds spaced 1 to 2 minutes apart. Readings were not detected 250 feet down wind of the trench.

### Trench 5-6

Trenches 5 and 6 were excavated adjoining one another to form one 50-foot trench oriented north-south. This trench was located in hummocky grass covered terrain similar to the location of TP1-TP4. Excavation spoils were piled on the eastern (down wind) side of the trench. The trench width was 5 feet. The depth extended to 14 feet.

The first foot of the profile of these two trenches consist of brown silty sand topsoil fill. Below the topsoil is calcium sulfate which varied in thickness from one to 9 feet. Below the calcium sulfate lenses is black silty sand with wood, plastic wrap, and sheet metal distributed throughout.

The water table was not reached in this excavation. The water source at the north end of TP-5 was perched water contained within the void space of the waste layer from 2-6 feet.

The majority of the metal objects were found at 8 feet in TP-5 and 6. The objects consist primarily of sheet metal. A small metal oven or refrigerator was excavated from TP-6 near the north end at approximately 8 feet.

#### Atmospheric Monitoring

The OVA was the only air monitoring instrument which had readings above background. Readings from 30 to 100 ppm were registered at the excavation. Downwind perimeter monitoring registered 20-30 ppm, 50 feet from the trench (east), 2 to 3 ppm, 150 feet east, and 0 at 250 feet. Higher readings averaging 30 to 40 ppm and instantaneous sporadic readings greater than 100 ppm were observed at the 6-foot depth in TP-5.

#### Trench 7-8

Trenches 7-8 were excavated adjoining one another to form one north-south trench extending 50 feet. These two trenches were excavated approximately 5 to 7 feet wide and stopped at 12 feet where the water table was encountered. The water table was reached before the bottom of the waste; groundwater is flowing through the waste at this location.

The silty sand topsoil is only a few inches thick at this location. Below the topsoil is about I feet of calcium sulfate. From I feet to the bottom of the pit at 12 feet is mixed waste consisting of paper, wood, fiber templates, plastic bags, black sand, Alka-Seltzer wrappers, bottles and caps, toothpaste samples, and glass bottles.

Metal objects include one unmarked 55-gallon and one unmarked 25-gallon drums. More significant metal objects include metal pipe found at 2 feet in TP-8, car bumpers, refrigerator compressors, sheet metal, and aerosol cans. Markings on aerosol cans suggests one source as <u>Sudden Beauty</u> hair spray and <u>Dristan Hay Fever Spray</u> were most common. Three 55-gallon drum lids were also found. Only one had legible markings marked "Aliphatic Resin."

Native yellow brown sand was encountered near the south end of TP-8 from the surface to the base of the excavation at 12 feet.

#### Atmospheric Monitoring

Sporadic readings of up to 700 ppm were observed on the OVA. Thirty-two ppm H<sub>2</sub>S were observed on the lumidor which periodically set off the instrument alarm. H<sub>2</sub>S readings were also sporadic; readings were highest during excavation of calcium sulfate. Perimeter monitoring of the downwind side of the trench exhibited readings of 30 to 50 ppm on the OVA at the work zone tape, and 3 to 6 ppm at 75 feet downwind of the work zone tape.

#### Trench 9

Trench 9 was excavated from northeast to southwest extending 25 feet. The ground surface at this area is flat and sparsely grass covered. Calcium sulfate is present at the ground surface. The silty sand topsoil is approximately 6 inches thick. Below this thin layer of topsoil is 2.5 feet of calcium sulfate. From 3 to 5 feet, waste was excavated consisting of tires, wood, paper, black sand, Alka-Seltzer wrappers, rubber 1/8-inch bands, and plastic bags.

Few metal objects were excavated from this pit. Three unmarked 55-gallon drums lids and bundles of wire were excavated at about 4 feet.

A lower calcium sulfate layer extends half way across the trench from the northeast end from 5 to 8 feet in depth. Mixed paper and plastic waste make up the majority of the waste from 8 to 12 feet. The water table was encountered at 12 feet where the excavation stopped.

The lower limit of the waste was not reached before the water table was encountered. Groundwater is flowing through waste at this location. As the bottom of the trench filled with groundwater, gas was bubbling up through the water originating from the waste at the base of the trench.

#### Atmospheric Monitoring

Readings of up to 500 ppm were observed on the OVA during the excavation of TP-9. Most of the OVA readings were from 20 to 100 ppm at the trench. Readings of H<sub>2</sub>S up to 38 ppm were observed during excavation and piling of calcium sulfate at the surface. Perimeter monitoring at the downwind border of the work zone exhibited OVA readings ranging from 2 to 90 ppm. Readings 100 feet further downwind were 2 to 7 ppm, and readings 200 feet downwind were 0.8 to 3 ppm. No perimeter readings above background were detected for H<sub>2</sub>S or any other monitored parameters.

#### Trench 10-11

Trenches 10-11 were excavated oriented north-south with TP-10 on the north-adjoining TP-11 on the south to form one 50-foot long trench. Spoils were piled on the east side of the trench.

TP 10-11 is located in a partially grass-covered area. The topsoil is about 1 foot thick consisting of yellow brown silty sand. A lens of waste extends about 12 feet south of the north boundary of TP-10. The lens is approximately 2 feet thick and consists of plastic bags, glass and plastic bottles, wood, and paper. The rest of the trench consists of white, black, and gray layers of calcium sulfate. A few scarce 1"x5" boards were found scattered throughout the calcium sulfate. Groundwater was encountered at 8 feet before the base of the calcium sulfate was reached. Very little metal was discovered in this trench. One piece of sheet metal was located 10 feet south of the north edge of TP-10 at 3 feet.

#### Atmospheric Monitoring

Positive readings of H<sub>2</sub>S and OVA were observed during excavating of TP 10-11. No other instruments had readings above background. OVA readings ranged from 10 to 200 ppm at the trench and 0 to 90 ppm downwind of the trench at the work zone tape. H<sub>2</sub>S readings ranged from 2 to 14 ppm at the trench with no H<sub>2</sub>S detected downwind of the trench outside of the work zone.

#### <u>Trench 12-13</u>

TP'12-13 were excavated at the south end of the landfill cap at a relatively flat grass-covered area. Two 25-foot long, 5-foot wide trenches were oriented along a northeast trend and adjoined to create one 50-foot long trench. Excavation stopped at 10 feet when the water table was encountered.

Approximately 6 inches of yellow brown silty sand topsoil fill was found covering about 7.5 feet of white calcium sulfate. Some of the fracture faces of the calcium sulfate were yellow. This may relate to the H2S atmospheric readings obtained during excavation of this material. This layer is relatively thick in this trench when compared to other trenches excavated on-site. At 8 feet, a 1-foot thick layer of waste was encountered within the calcium sulfate. The waste consists of wood and paper with lesser amounts of sheet metal, rubber sheets, and Alka-Seltzer wrappers. Groundwater was observed to be pouring out of void spaces associated with the waste layer. This black groundwater poured into the bottom of the trench as the excavation proceeded. Gases were observed bubbling up through the groundwater from the calcium sulfate at the base of the trench.

#### Atmospheric Monitoring

Positive readings of H<sub>2</sub>S and readings on the OVA were observed during trenching of TP 12-13. H<sub>2</sub>S readings range from 1 to 46, averaging about 7 at the trench. No downwind H<sub>2</sub>S was detected during perimeter monitoring outside the work zone. OVA readings range from 20- greater than 1,000 ppm, averaging about 200 ppm at the trench. Perimeter OVA ranged from 10 to 50 ppm, with average readings about 10 ppm. Readings of 1.5 to background were observed 100 feet downwind of the trench.

#### <u>Trench 14-15</u>

TP 14-15 were excavated at the southwest edge of the landfill cap at a grass-covered flat area immediately west of the slope east up to the top of the landfill cap. The western boundary of fill was excavated at TP 14-15. Two 25-foot long trenches were oriented east-west and adjoined to make one 50-foot long excavation. Spoils were piled on the north side of the trench. The trench was excavated to 5 feet wide, but sloughing of the sidewalls during excavation widened the trench to up to 15 feet in places.

The stratigraphic profile begins with approximately 1-foot of brown to yellow brown silty sand topsoil. Below this layer is a 1 foot thick layer of white to gray hardened calcium sulfate. Native sand was encountered from 2 to 9 feet. Several zones of black sand approximately 6 inches thick and 6 feet long were found throughout the buff to brown native sand. No water was encountered in TP-14. As the excavation proceeded east, the depth was decreased to 6 feet since no fill material was present below the calcium sulfate at one to two feet. At the eastern-most edge of TP-15, wood debris, a refrigerator compressor, metal pipe, and sheet metal debris were discovered at about 4 feet in depth. Groundwater began pouring out of this area of debris and proceeded to fill the trench with water. Backfilling of the trench began

as soon as the water began pouring out. By the time the backfilling was complete, there was excess volume of groundwater which was displaced by backfill material so that a several inch deep by 30-foot wide puddle was left at the west end of TP-14 on the ground surface.

#### Atmospheric Monitoring

No abnormal readings were observed other than OVA detections. The OVA readings ranged from 1 to 400, averaging less than 20 ppm. Downwind perimeter OVA readings ranged from 0 to 90 ppm, averaging sporadic readings of 20 ppm. OVA readings were sporadic from 1 to 5 ppm 100 feet downwind. The absence of  $\rm H_2S$  readings during the excavation of this trench may be related to the relatively little amount of calcium sulfate encountered.

#### Trench 16

One 25-foot long trench was oriented on a northwest trend at this location. Approximately one-half foot of brownish yellow fine-grained silty sand topsoil was found overlying a one-foot thick layer of calcium sulfate. Waste was excavated below the calcium sulfate. The waste consists of black wood, paper, plastic and glass bottles, rubber, plastic bags, and smaller amounts of sheet metal, metal pipe, and an empty gas container from a small engine. Black groundwater was reached at 4 feet so the excavation stopped at this depth. A few extra scoops were excavated to 6 feet at the southeast end of the trench. These saturated spoils were not removed, but piled in the northwestern end of the trench. This extra excavation was done to attempt to define the lower limit of the waste. Waste continued beyond 6 feet deep.

#### Atmospheric Monitoring

Reading of H<sub>2</sub>S and positive readings on the OVA were observed during excavation of TP-16. H<sub>2</sub>S readings range from 2 to 27 ppm at the trench, but were not detected downwind outside of the work zone. OVA readings ranged from 10 to 500 ppm. Perimeter OVA readings ranged from background to 12 ppm. No OVA readings were observed 50 feet downwind of the trench.

#### Trench 17

Trench TP-17 is oriented on an east-west trend extending 25 feet. The trench was approximately 5 feet wide. A thin (several inch) layer of yellow brown silty sand topsoil fill covers an 8-inch thick layer of calcium sulfate. Below the calcium sulfate, waste was encountered. Approximately 80 percent of the waste is rubber sheets and bands with minor paper, wood, glass bottles, and minor corroded sheet metal and aluminum bars at less than 2.5 feet. Groundwater was encountered at 2 feet in TP-17, so the excavation was stopped at this depth.

#### Atmospheric Monitoring

OVA readings up to 2 ppm were observed during trenching of TP-17. No other readings were observed above background on any air monitoring instruments either at the trench or downwind of the trench at the work zone perimeter.

#### Trench 18

TP-'18 is oriented along an east-west trend. The excavation was approximately 5 feet wide and 25 feet long. A thin veneer of sandy topsoil covers about an 8-inch thick layer of calcium sulfate. Waste was excavated below the calcium sulfate layer. The waste consists of paper, plastic, rubber, glass, card-board, one plastic unmarked, empty 55-gallon drum, and metal objects such as a car bumper, and 3x3x5-foot sheet metal box. Groundwater was encountered before the base of the waste at 7 feet.

#### Atmospheric Monitoring

The OVA was the only air monitoring device which detected air contaminants above background. OVA readings ranged from 2 to 100 ppm at the trench. OVA readings at the work zone boundary downwind of the trench were sporadic ranging from 1 to 80 ppm . One hundred feet downwind, the OVA readings were down to background.

#### Trench 19

TP-19 is oriented slightly northeast trending. It is 25 feet long and approximately 5 feet wide. It is located at the northwest corner of the landfill cap.

The stratigraphic column begins with 1 foot of black, organic rich topsoil. From 1 foot to 2 feet, a layer of calcium sulfate was discovered. Below the calcium sulfate layer, waste was excavated. The waste consists primarily of wood, cardboard, glass bottles, beverage cans, and plastic. Small amounts of metal were excavated at the 3-foot depth consisting of a car muffler; two 55-gallon drums lids, unmarked and corroded; and a metal pail. The water table was encountered at 9 feet before the base of the waste was reached. Waste is, therefore, within the zone of saturation at this location.

#### Atmospheric Monitoring

The OVA was the only air monitoring instrument which had readings above background during the excavation of TP-19. Readings at the trench ranged from background to 2 ppm. Perimeter monitoring at the downwind direction revealed sporadic readings on the OVA which ranged from 0 to 120 ppm. Readings averaged about 50 ppm. Approximately 60 feet downwind from the trench, OVA readings were down to background with sporadic pulses to 5 ppm

#### Trench 20

TP-20 was excavated at the northeast corner of the site south of the quarry pond. This trench was oriented along a north-south trend extending 25 feet. The trench width varied from 5 to 8 feet.

The stratigraphic profile of this trench begins with a 1-foot thick layer of brown silty sand topsoil. Below the topsoil is a 1-foot thick layer of calcium sulfate. From 2 to 11 feet, waste is present. The waste consists of paper, cardboard, plastic bags, wood, black sand, and minor glass bottles. At the base of the waste, a second calcium sulfate layer was discovered. Groundwater was flowing from the interface of the waste and underlying white to gray calcium sulfate. A crumpled piece of sheet metal, roughly 3x3-foot, was excavated from the calcium sulfate at about the 12-foot depth. The excavation was completed at 13 feet where the water table was encountered.

#### Air Monitoring

Readings of H<sub>2</sub>S and detections using the OVA were the only above background values observed during the excavation of TP-20. OVA readings at the trench ranged from background to greater than 1,000 ppm. Perimeter monitoring at the outside edge of the downwind side of the trench revealed OVA readings of 20 to 80 ppm with an average of 20 ppm. One hundred feet further downwind, the OVA readings averaged 10 ppm and were down to background 150 feet downwind from the trench.

TP/ke

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### APPENDIX A

FIELD PROCEDURES AND DATA EVALUATION METHODS
FOR GEOPHYSICAL SURVEY

#### TECHNICAL MEMORANDUM

DATE: April 30, 1991

TO: Vanessa Harris, Site Manager

CC: Roman Gau, Project Manager

Mike Crosser, TSQAM

FROM: David L. Grumman, Project Geophysicist

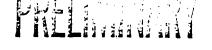
STS Consultants, Ltd.

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J

Donohue Project No. 20026 STS Project No. 026.023

Himco Dump Site Elkhart, Indiana



#### GEOPHYSICAL EXPLORATION PROGRAM

#### Introduction

STS Consultants, Ltd. (STS) was requested by Donohue to conduct combined electromagnetic and magnetic geophysical surveys at the above-referenced site. The objectives of the surveys were to identify and map anomalous zones to help target subsequent site explorations by Donohue. The survey encompassed approximately 60 acres at the Himco Dump Site. The specific geophysical survey areas include the fill areas, the unfilled margins of the dump, and a wetland remnant along the south central boundary of the landfill.

#### Survey Methods

The geophysical explorations consisted of combined electromagnetic terrain conductivity and magnetometer surveys.

#### Instrumentation

The electromagnetic (EM) survey was performed using a Geonics EM-31-DL terrain conductivity meter (EM-31) with a DL-55 data logger. The magnetometer (Mag) survey was performed using an EG&G G-856 proton procession magnetometer with two (top and bottom) sensors. The use of two sensors allows the measurement of the magnetic gradient at each survey position. A laptop field computer was used to download and process the field data during the survey. All geophysical survey instrumentation, with the exception of the field computer, were provided to STS by Donohue.

#### Mobilization and Field Personnel

Equipment operation was checked at STS's Northbrook, Illinois, office prior to mobilizing to the site. The geophysical survey equipment appeared to be in good working order. The STS field survey crew, Mark Stroebel, Michael Monteith, and David Grumman, arrived on-site Monday, October 22, 1990, and met with Ms. Marsha Kuehl and Mr. Tom Puchalski of Donohue to review the geophysical survey objectives and site safety procedures. At that time, a 100-foot by 100-foot staked grid was still being established on-site by a subcontract land surveyor.

#### Survey Procedures

EM and Mag readings were taken at 25-foot intervals along survey lines spaced every 25 feet. Distances were paced-off between each staked survey grid point. Survey line nomenclature is described further in the addendum to this memo. Consistent instrument orientations were used across the survey area. Only vertical dipole EM readings were taken, and perpendicular EM readings were not taken. Each STS instrument operator maintained a field notebook during the survey and noted conditions including surface obstructions, nearby metallic objects or structures, possible sources of electrical interference, reference points along selected survey lines (for data validation), and skipped readings.

Several base stations were established along the landfill's periphery to monitor magnetometer drift. The results of the base station readings generally showed low level drift in the magnetometer data during the field survey (+/-75 gammas, approximate). The Mag field data were not adjusted to compensate for these low level variations during the data reduction. Selected survey points were also used to monitor drift in the EM readings; however, only negligible variations in the EM base station data were observed and drift corrections were not made.

#### Data Reduction

The field data were returned to sTS's Northbrook, Illinois, office for data reduction and contouring. The data reduction steps for the magnetometer data consisted of: converting field data files to binary format, merging data files, gradient processing, grid position assignments, adjustments for erroneous and/or missing data, conversion of files to contourable ASCII (x-y-z) format for contouring, and computerized data contouring. A similar procedure was used to isolate the top and bottom Mag sensor readings. The EG&G program MAGPAC was used to reduce the Mag data.

A similar data reduction sequence was used for the EM data and consisted of: grid position assignments, adjustments for erroneous or missing data, separating quadrature and in-phase readings, conversion of data files to contourable ASCII (x-y-z) format, merging data files, and data contouring. The Geonics Ltd. program DAT31Q was used for the EM data reduction.

#### Deviations

Two field mobilizations were required to complete the survey since the survey grid had not been completed during the first mobilization. Field data from overlapping survey lines from both field efforts were evaluated and found to be consistent and generally reproducible between mobilizations.

An analysis of the Mag gradient data showed that the top sensor malfunctioned erratically during the survey, and thereby rendered the top sensor data unusable. The erratic data occurred at unpredictable intervals and appeared related to a sensor or instrument error. The anomalous top sensor readings did not match data trends in the more stable bottom sensor data. Consequently during data reduction, the bottom sensor total field data was isolated, reduced, and contoured.

The wetland remnant area was surveyed using an approximate grid system set-up by STS since no grid had been established by the land surveyors in this area.

#### Summary of Results

Over 3,000 site grid points were surveyed using the magnetometer and EM techniques.

#### Magnetometry Results

The contoured results of the magnetic data show several magnetic anomalies onsite. Figure 1 illustrates the contoured total field data (bottom sensor) and identifies the anomalies considered significant and not related to cultural interferences. These anomalies ranged between plus or minus 1000 to 4000 gammas in magnitude. Background magnetism appeared to be approximately 56750 gammas. A partial listing of some of the larger anomalies is as follows:

- Southeast-central region, directly north of site entrance.
- South central area, approximately 300 feet north of the remnant wetland.
- West central area (10, M).

#### EM Results

The contoured quadrature and in-phase EM data show several very large anomalous regions on-site (50 to 500 mmhos/m). More discreet anomalies are not easily resolved from the extensive quadrature anomalies, although several more localized in-phase anomalies (10 to 40 ppt) are apparent. Background levels were considered to be in the range of 10 to 40 mmhos/m for the quadrature phase and 0 to -2 ppt for the in-phase readings. Figures 2 and 3 illustrate the contoured quadrature and in-phase EM data, respectively. The extent of the large quadrature phase anomalies appears to highlight the approximate limits of filling, and shows that the surveys did provide minimal coverage beyond the fill boundaries. The in-phase data is considered more useful in

the identification and mapping of conductive waste burial areas, i.e., areas which could contain concentrations of barrels, metal scrap, or highly conductive buried wastes. A partial list of the most significant in-phase anomalies includes:

- Southeast central area, north of site entrance.
- Southeast central, northwest of site entrance.
- Northeast central, south of former grave pit.
- Entire central region of landfill.

Data from the wetland remnant do not appear to show significant anomalous Mag or EM levels, as no readings appeared to be elevated above what would be considered background levels for sand soils. The quadrature data ranged between 2 and 20 mmhos/m. The wetland data was not included in the contoured data since the wetland survey grid could not be reliably tied into the site survey grid.

RS/ke

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#### ADDENDUM TO TECHNICAL MEMORANDUM

#### Grid Position Nomenclature

Several survey positioning schemes were used during the survey. The land surveyors established a 100-foot by 100-foot staked grid using numbers (1-25) along the east-west axis (increasing eastward), and letters (A-U) along the north-south axis (increasing northward). Station A-25 was very close to the southeast corner of the survey area. STS adopted a geophysical survey line/station reference scheme by designating land survey line No. 25 as geophysical survey line 100, with the line numbers decreasing by 1 for each survey line moving west. Geophysical station numbers were simply the linear distance along each survey line north of the A line, where the A line equals 0 north. Finally, during data reduction, line numbers were reassigned to reflect Easting/Northing distances, in feet, by designating station A-25 equal to station 10,000 East, 0 North. The following table schematically presents the line numbering:

Survey Line Reference Nomenclature

Land Surveyors Staked Location	Geophysical Field Survey	Geophysical Contour Coordinates
Easting	Easting	Easting
25	100	10,000 .
	99	9,975
	98	9,950
•	97	9,925
24	96	9,900
	95	9,875
••	•• •	
2	1	7,550
1	0	7,525
ns	201	7,475
ns	202	7,450

ns: Not Staked

The northing grid spacing was 25 feet, however, the EM meter automatically incremented/decremented this interval. The northing interval is irrelevant to the Magnetometer until data reduction. The range of northing coordinates for the survey area is 0 feet (southeast corner of site) to 2,050 feet (northwest corner of site).

### Computer Data Files

The enclosed diskettes contain the following data:

<u>Disk</u>	<u>Files</u>	Comment
3 1/2" Diskette	HHimcol.new,, HHimcol9.new DHimcol.new,,	Reduced EM Data files for using DAT310
	Himcol.dat,, Himcol6.dat	Raw Mag Data files (unreduced)
5 1/4" Diskette	HimcolVQ.xyz	x-y-z data file for EM quadrature data
	HimcolVI.xyz	x-y-z data file for EM in-phase data
•	HimcoMG.dat	x-y-z data file for magnetometer Gradiometer data (erroneous)
``	Himcobot.dat	x-y-z data file for bottom sensor magnetometer data

A/O/M/CQ8

APPENDIX B

MACNETIC ANOMALY HAP

TEST PIT LOGS

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		TRENCH LOG FORM		
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MTE:	30190	TRENCH NO: 144 15		
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NTROL MONUME	END Or ORBO TM	<del></del>	TREN	CHILENGTH: 0 FT TO 25 FT CHI WIDTH: 5 Ft to 10-Ft where cannot		
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	·	TRENCH LOG FORM		
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CLIENT: USE! PRIOJECT: H PRIOJECT NO.: DATE: H GRID COOFID: CONTROL MONUME ELEVATION, TOP OF	9003 90 8TART END NT GRID CO	-NENETHENCH LENGTH: 35_FT TO 50_FT -NENETHENCH WIDTH: 5-FT		
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Danohuu		TRENCH LOG FORM		
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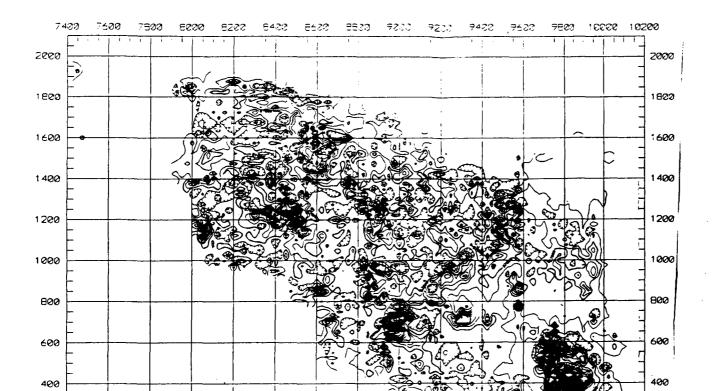
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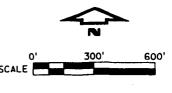
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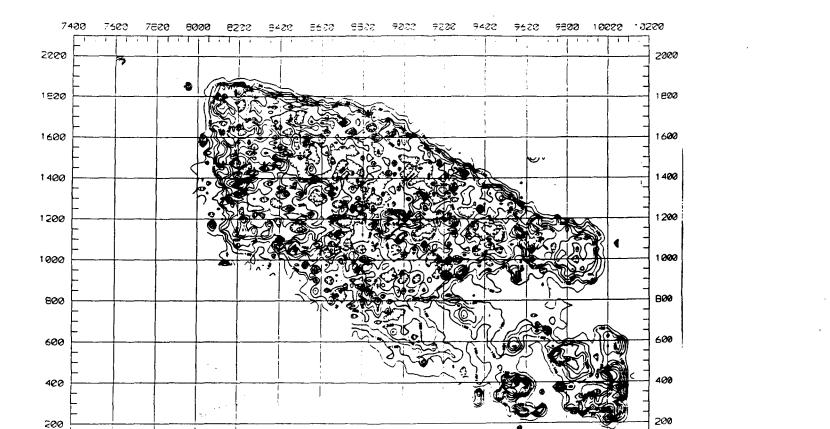


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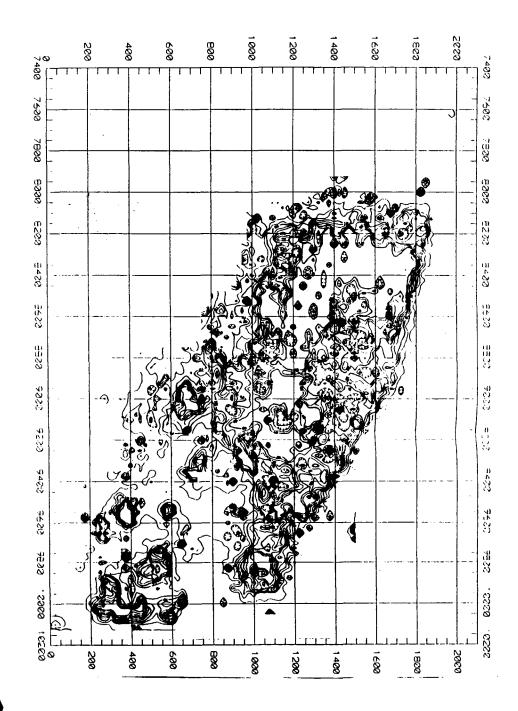
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CONTOUR INTERVAL = 50 mm/m

QUADRATURE PHASE EM-81 (TECHNICAL MEMD)

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CONTOUR INTERVAL .

WAY 1991

FIGURE 8 IN-PHASE EM-81 SURVEY (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA



#### TECHNICAL MEMORANDUM NUMBER 11

DATE: February 13, 1991

TO: Vanessa Harris

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Tom Puchalski

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Kimco Dump



## SLUG TESTING FIELD PROCEDURES AND ANALYSIS

#### Introduction

Following well development, groundwater monitoring wells listed in Table 1, were slug-tested at the Himco Dump. Wells E3, F1, F2, M1, and M2 were installed in 1977 and 1979 by the U.S.G.S. The remainder of the wells were installed by Donohue for this investigation. The wells were slug-tested to determine hydraulic conductivity of the outwash deposits at several points across the site at the depths listed in Table 1. These hydraulic conductivity values will be used to evaluate the integrity of the wells and to calculate groundwater flow rates. Slug testing was done on December 1, 2, 14, and January 4, 1991, by Cathy Fruehe, Tracy Koach, Anya Kirykowicz, and Tom Puchalski of Donohue & Associates, Inc.

## Field Methods

An ORS Environmental Equipment Model EL-200 data logger and pressure transducer were used to collect all of the slug test data. The battery-operated unit translates water pressure into electrical signals within the transducer. The electrical signals are relayed by a cable to the data logger where they are converted and displayed as water level data. The time and water level data are recorded during the test and stored in the data logger memory until the data is sent to a disk or printer for later analysis.

Slug tests were performed as described in Section 4.2.3.3 of the Final Field Sampling Plan. Himco Dump Remedial Investigation/Feasibility Study. Elkhart. Indiana. The setup for the slug test began by unlocking the protective casing and using a decontaminated popper tape to measure the static water level and the depth to the well bottom. This data was recorded on the slug test field data form. A 15 or 5 psi transducer was decontaminated with soap and tap water, and a tap water rinse before lowering into the well. The mode which allows the water level to be read on the data logger display was activated so that the depth of water above the transducer could be read while the transducer was lowered into the water. The transducer cable was duct taped to the

# REFERENCES

- Bouwer, H., The Bouwer and Rice Slug Test An Update, v. 27, n. 3, pp. 304-309, 1989.
- Bouwer, H., and Rice, R.C., A Slug Test for Determining Hydraulic Conductivity of Unconfined Aquifers with Completely or Partially Penetrating Wells, Water Resources Research, v. 12, n. 3, pp. 423-428, 1976.
- Freeze, R.A., and Cherry, J.A., Groundwater, Prentice-Hall, Inc., Englewood Cliffs, New Jersey, pp. 29, 1979.

TABLE 1

•	INDD AIR IC	BOTTOM DEPTH	
***** ******	HYDRAULIC		CCDCENED IN
WELL NUMBER	CONDUCTIVITY (cm/s)	OF SCREEN	SCREENED IN
V1 DICE	3.17x10-3	103.24	SP, GP
M1-RISE	3.1/XIO =		•
M1-FALL	1.43x10 <sup>-3</sup>	103.24	SP, GP
F1-RISE	1.21x10 <sup>-1</sup>	31.28	*
F1-FALL	$4.51 \times 10^{-2}$	31.28	*
F2-FALL	$1.27 \times 10^{-3}$	147.83	*
F2-RISE	7.37x10 <sup>-4</sup>	147.83	* *
M2-RISE	3.69x10 <sup>-2</sup>	24.76	*
E3-RISE	7.95x10 <sup>-4</sup>	175.65	SP, GP
E3-FALL	4.61x10 <sup>-4</sup>	175.65	SP, GP
P101B-FALL	3.99x10 <sup>-3</sup>	100.47	SM
P101C-FALL	1.11x10 <sup>-3</sup>	166.53	SP
P102B-RISE	$3.50 \times 10^{-2}$	67.25	SP
P102B-FALL	. 3.91x10 <sup>-2</sup>	67.25	SP
P102C-RISE	$3.59 \times 10^{-3}$	159.96	SP
WT101A-RISE	2.69x10 <sup>-2</sup>	18.70	SP
WI101A-FALL	9.45x10 <sup>-3</sup>	18.70	SP
WT102A-RISE	$4.14 \times 10^{-3}$	18.18	SP-SM, SP-GP, SM
WT102A-FALL	6.80x10 <sup>-3</sup>	18.18	SP-SM, SP-GP, SM
WT103A-RISE	4.10x10 <sup>-2</sup>	18.47	SW-GW
WT103A-FALL	1.86x10 <sup>-2</sup>	18.47	SW-GW
WT104A-RISE	3.89x10 <sup>-2</sup>	18.69	SP, SW-GW
WT104A-FALL	5.07×10 <sup>-3</sup>	18.69	SP, SW-GW
WT105A-RISE	1.93x10 <sup>-2</sup>	18.56	SP
WT105A-FALL	1.01x10 <sup>-2</sup>	18.56	SP
WT106A-RISE	$4.71 \times 10^{-2}$	18.50	SP-GP
WT106A-FALL	8.40x10 <sup>-2</sup>	18.50	SP-GP

<sup>\*</sup> Data not available.

A/R/HIMCO/AB6

APPENDIX A

DATA PLOTS AND ANALYSIS

TO UTILIZE THIS WORNINGET. ENTER HOUR DATA AT LIBEATIONS MARKED BY MA "I".
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SQUWER AND PICE METHOD FOR INTEFFRETATION OF SLUS TESTS: FOR UNCONFINED AND LEAKY CONFINED ADDIFFERS.

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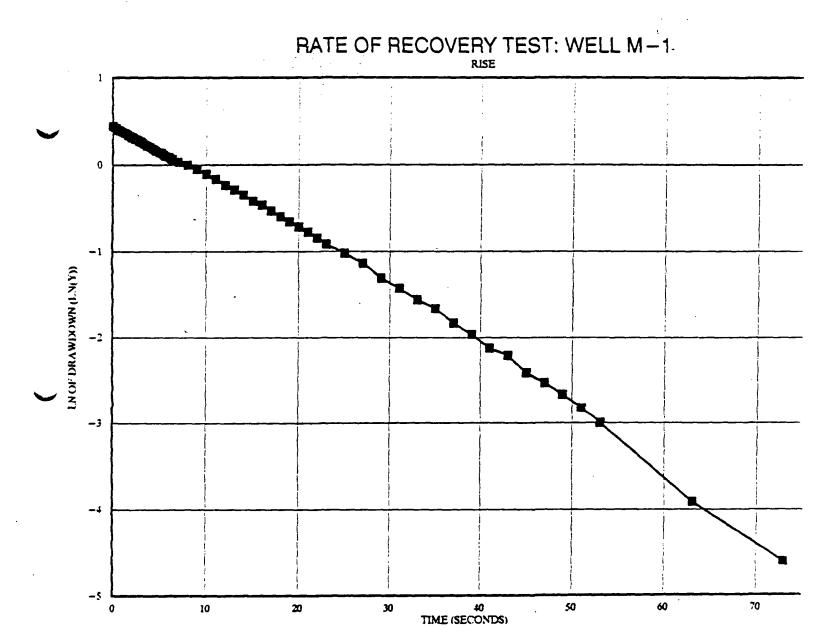
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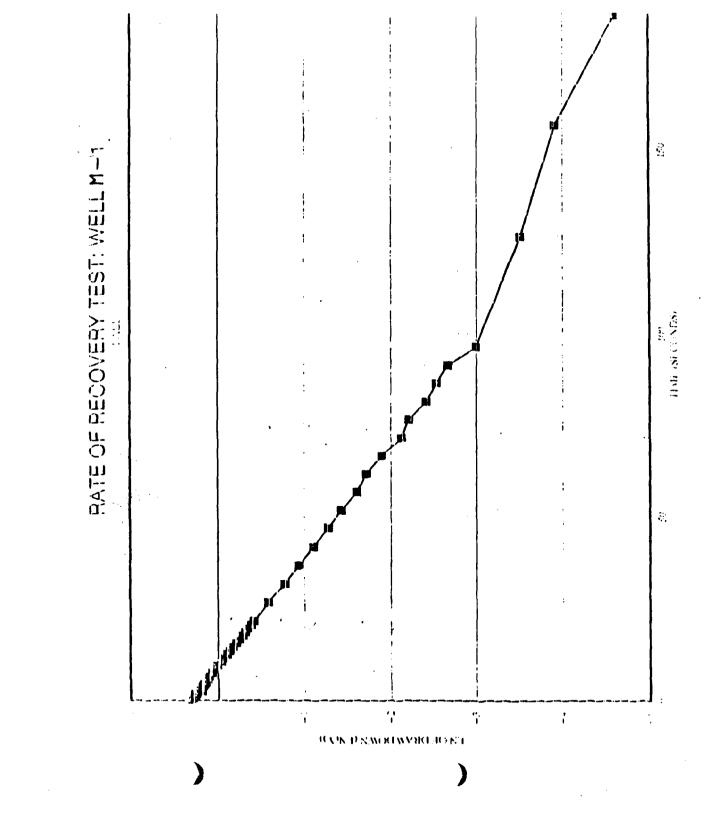


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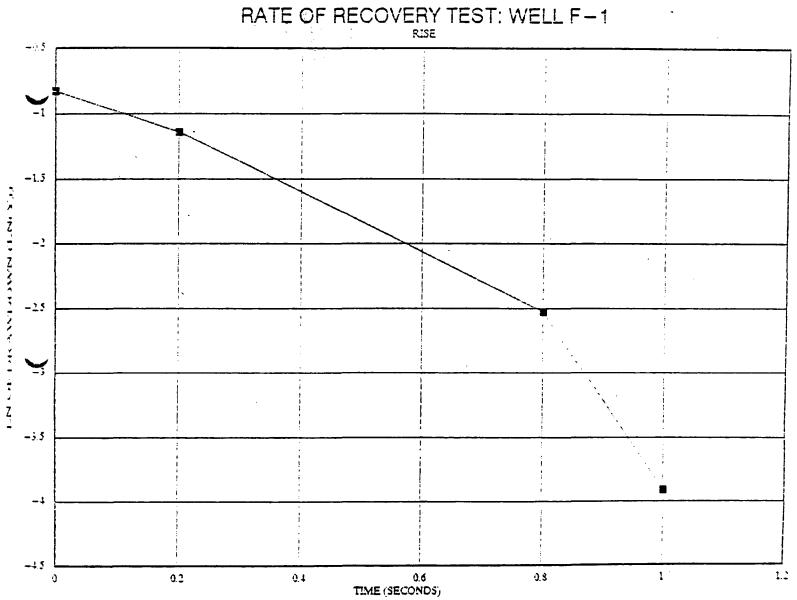
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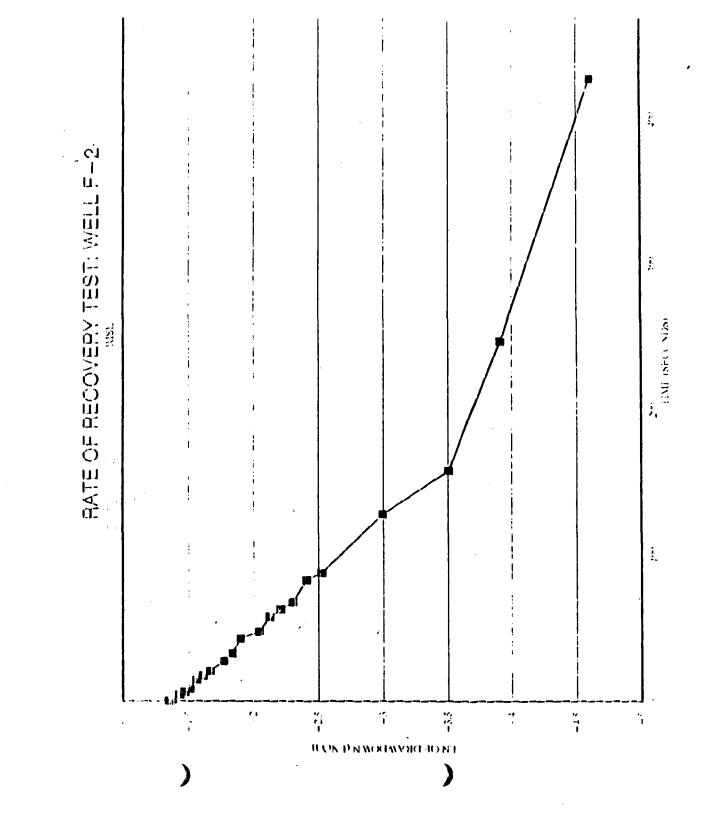




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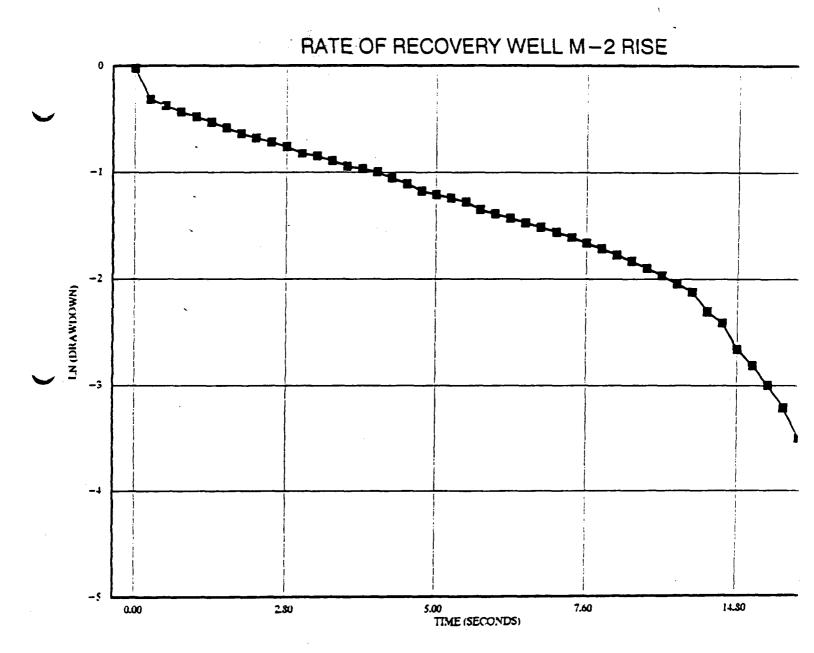
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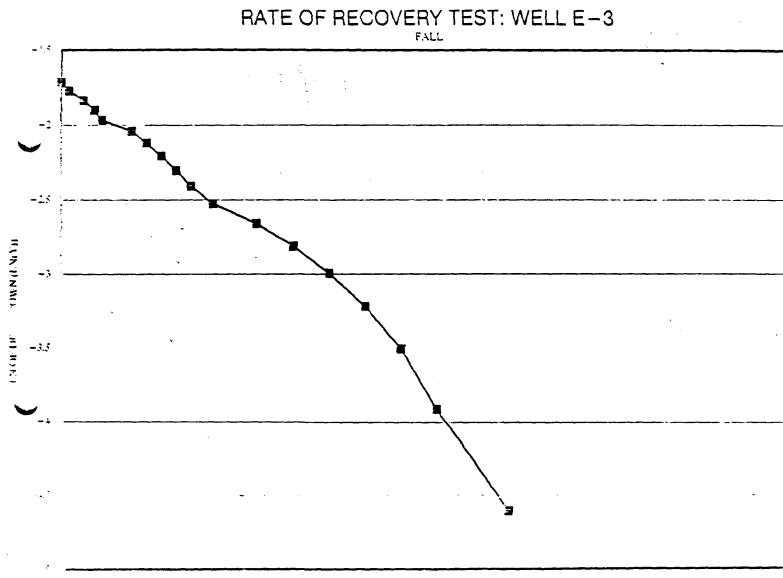


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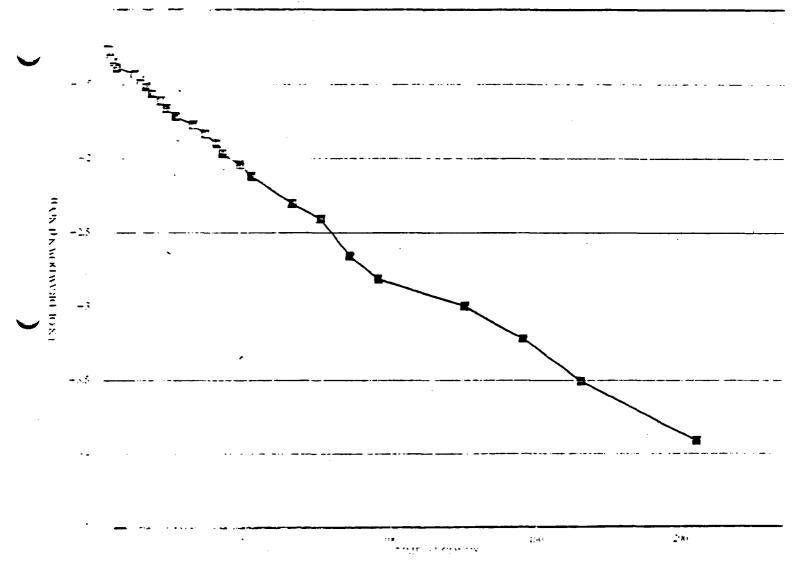




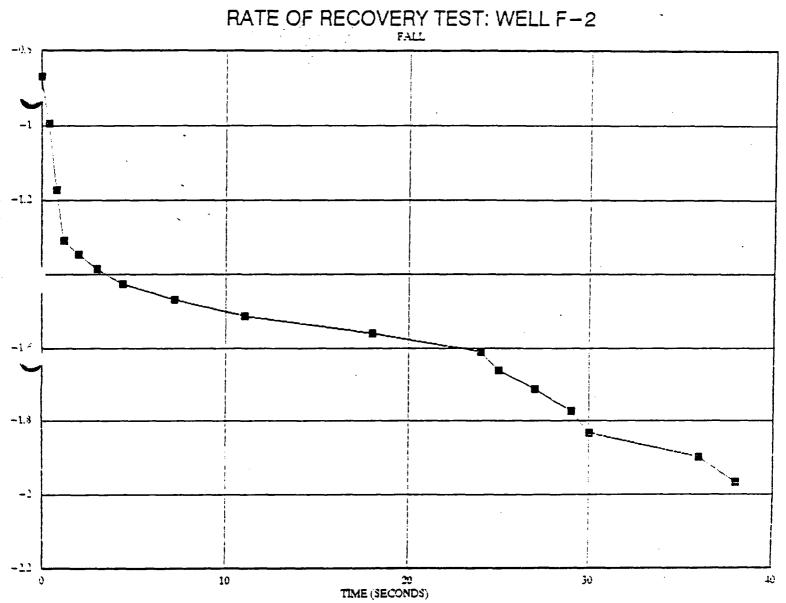
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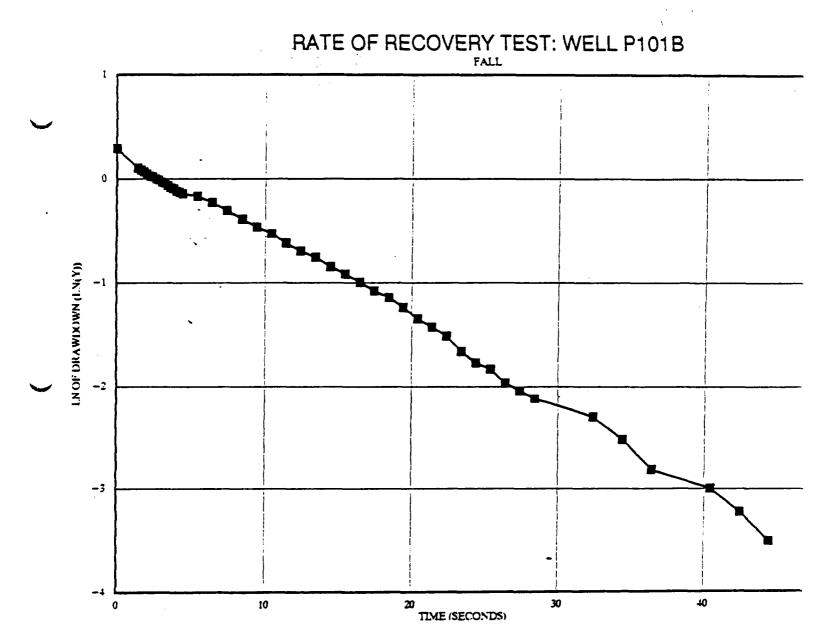


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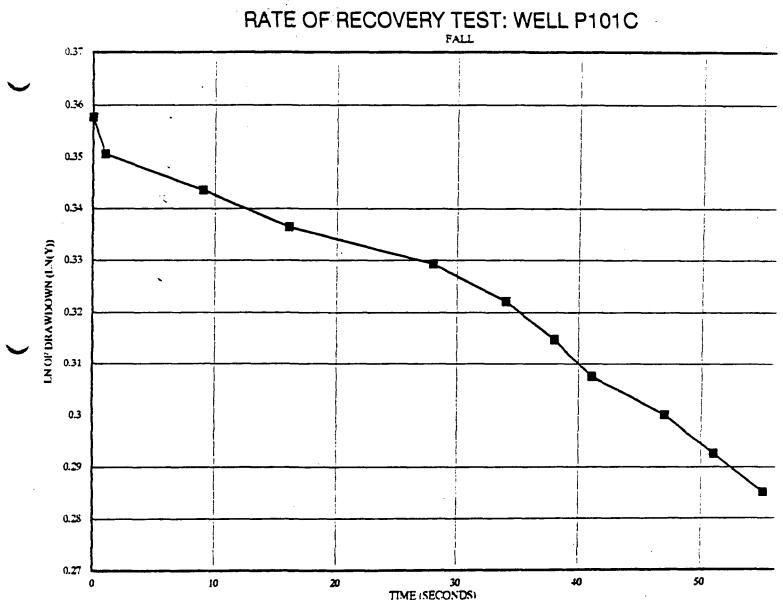
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TOUGH AND RICE METHOD FOR INTERPRETATION OF SLUB TESTS: FOR UNCONFINES AND LEAKY CONFINED AQUIFERS.
TO UTILIZE THIS NOW SHEET, ENTER YOUR DATA AT LOCATIONS MARKED BY BY MY.
FROGRAM OAN INCLUDE EFFECTS OF SANDPACK DEWATERING HARBOUR MATER IS FISHER WITHIN THE SANDPACKY.

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	:17185 es	n. #02975 11	12490368	Time ser	U	1 46507E07 HAME : :HEMOS
	142	.maïEs st.		1 41 .	(4)	#PRIJECT NO : 1997a.024
						#FROJECT NG : 0000±,004 - FRELL NG :F1010 FALL
		11.00				: FANLLYST : FUCHALSE!
						IDATE COLLECTED : 04-Jan-91
, 3	, ,	: 10.95				: #RISER PIPE (ID): (2 r seb c) = 2.0 in. = 0.0852 (ragius in ft.)
		10.97				: REFFECTIVE SCREEN PLANETER:(2 : sun +) = 8.0 in. = 0.3333 (raging in ft.)
	•					SEFFECTIVE SCREEN LENGTH: (L) = 5.00 Ft.
		: 10.75				
	:	10.95				: THAI DRANDOWN (IN SUBSET): (Year) = -1.38 Ft.
- 7	•	19.74				FSTATIC WATER LEVEL: (SML) = 9.57 Ft.
. 3		10.93				TORPTH FROM SNL 79 SFF. SCREEN NOTTON: (N) + 10.88 Ft.
; •		10.72				rest. Adulfer befor (SML To Adulfer Bottom): (B) = 175.00 ft.
: 10						: FINCLUSE SANDFACK REMATERING : ENTER 1 IF YES. 0 IF NO??
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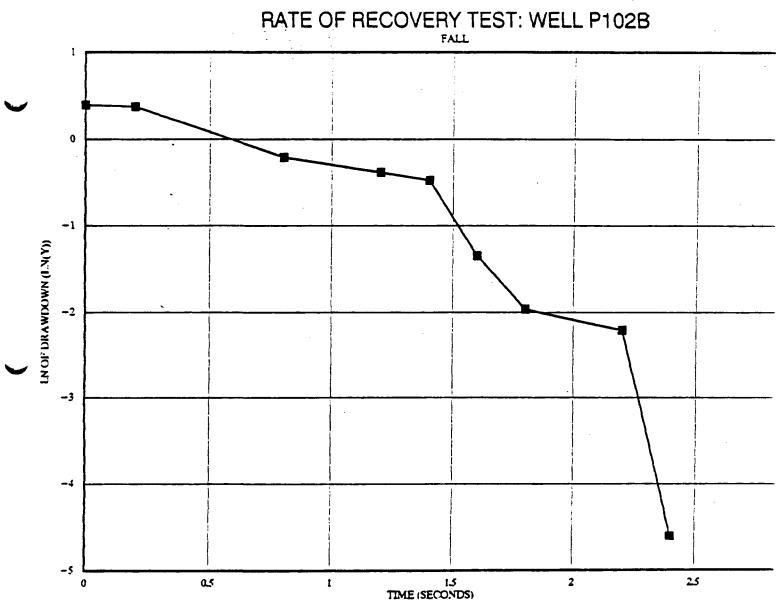




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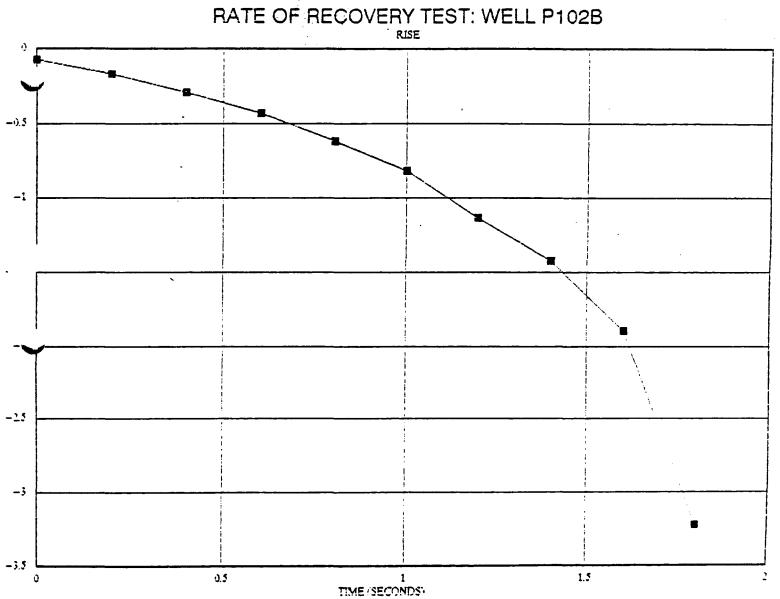




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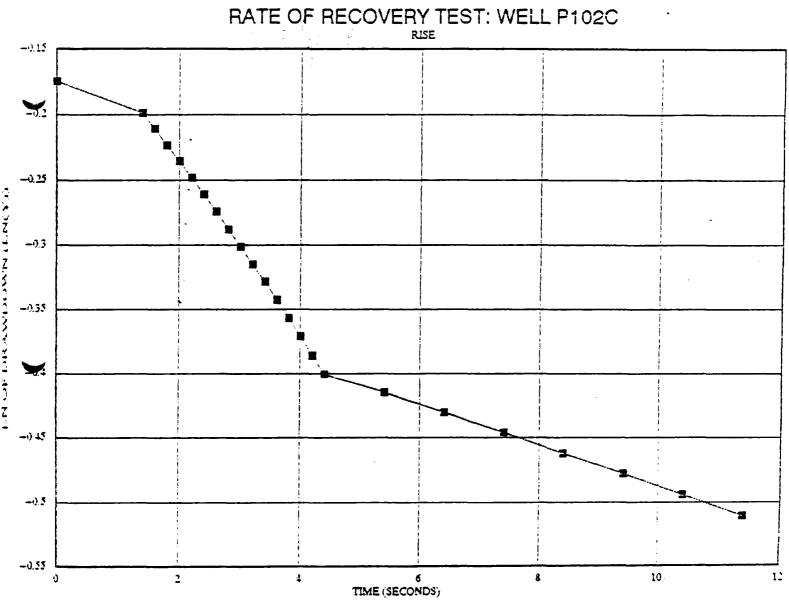




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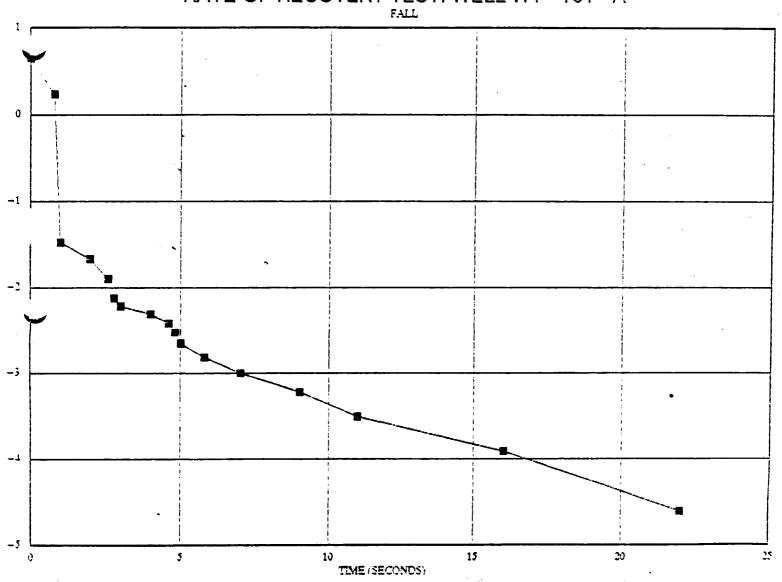


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## RATE OF RECOVERY TEST: WELL WT-101-A

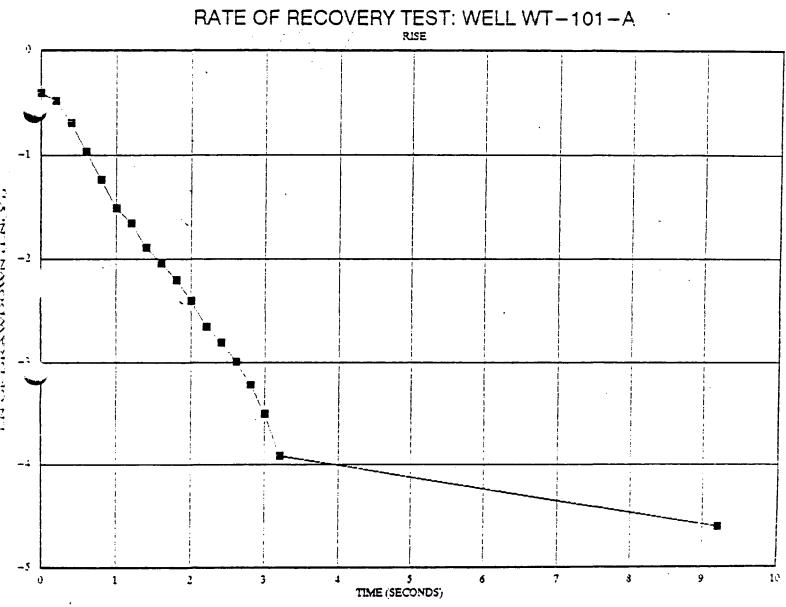


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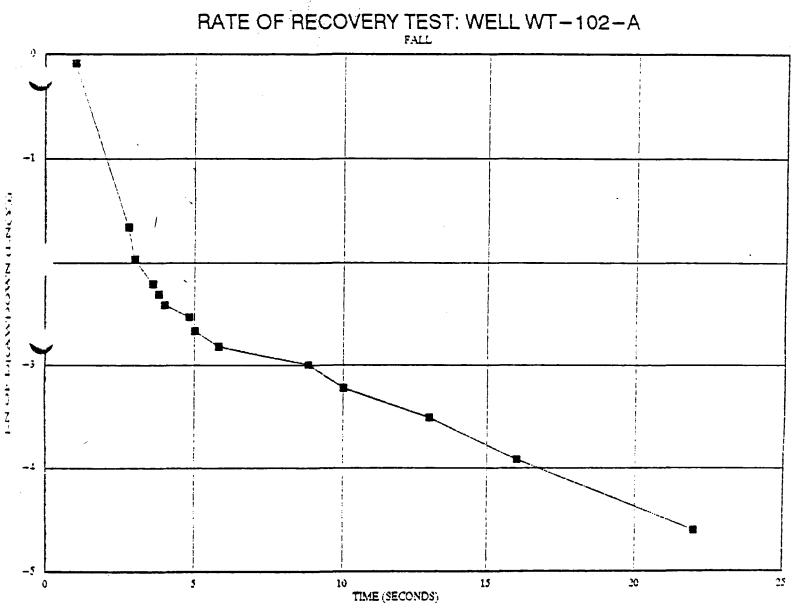
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EQUIRER AND FIGE METHOD FOR INTERMETATION OF SELIG TESTS: FOR UNCONFIRED AND LEARN COMFINED AGUIFERS.
TO UTILIZE THIS MORNEMEET, ONTER YOUR DATA AT LOCATIONS MARKED BY AN 15'.
FROSERH CAN INCLUDE EFFECTS OF SANOPACK DEMATERING VASSUATING MATERIES FISING WITHIN THE SANOPACKY.

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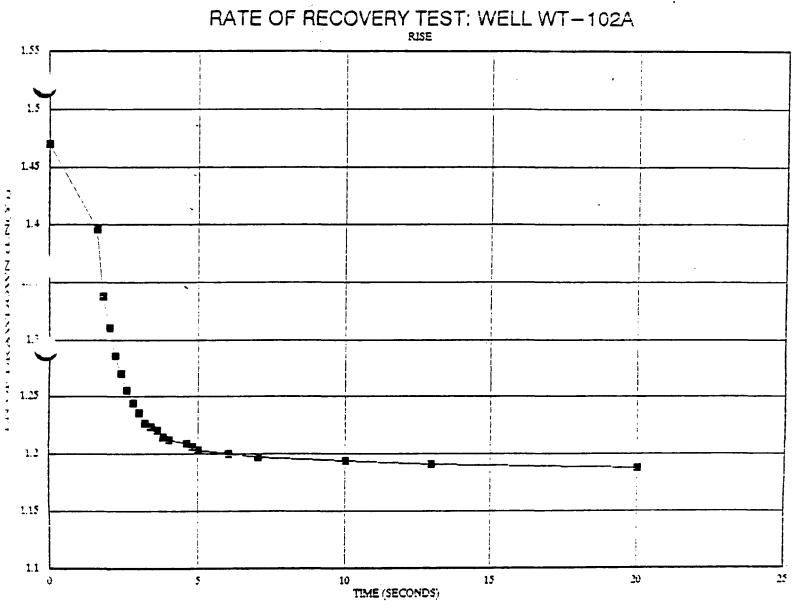
ISTEMS audisCEPTH TG: BRANDOMM ITIME sec : LM : : SPROJEET NAME isla: OR TOSILOPPI : (Y) : IPPOJECT HO . (E) CHATER FL. . . . 20074-674 :MT-102A RISE .. ...... INELL YO' 0.00 1 1.4702 1 19MAL:ST 5,94 4.250 :£.:45 1.60 1.0762 | EDATE COLLECTED 1.90 1.0076 | BRISER FIRE COLLECTED 1.90 1.0010 | EFFECTIVE SCREEN :12-14-60 :.25 4.940 I'r aut c' + hidett inadeus in this 2.0 16. \* 2.42 1.216 1.10 REFFECTIVE SCREEN DIAMETER: 2 \* suc mr + 0.0000 tradius in St. ( 8.9 in. = :.53 1.20 1.2945 1.40 1.2498 REFFECTIVE SCREEN LENGTH: (L) 11.09 Ft. 2.27 2.77 1...20 : IMAI DAMEDON (IN SUBSET): (Year) I.Iso : 4.04 Ft. 5.510 1.av | 1.2556 ISTATIC MATER LEVEL: (Shi) 4.78 : 10.29 Ft. 1. 170 1.80 : 1.2442 I KOEPTH FROM SHE TO EFF. SCREEN BOTTON: (N) . ā 4.32 : ..85 : 3.440 3.00 : 1.2335 : FEST. AGUIFER DEPTH (SML TO AGUIFER METTON): (B) . 12.33 Ft. 3.20 : 1.2247 : FINCLUSE SANOPACK SENATERING !ENTER 1 IF YES. 0 IF NO!? 1 10 : ..28 : J.410 : 3.40 : 1.2238 : ISANOPACK'S SPECIFIC YIELD (Sv) + : 11 : 3.39 a.70 : 1.240 : 3.40 : 1.2298 12 6.92 . 3.370 : 3.80 : 1.2149 : BOUNER AND RICE CURVE COEFFICIENTS: 3.350 : 6.75 4.00 : 1.2119 MATTO OF L/(r sub w/ \* : 15 : 4.94 4.au : 1.2090 : ..95 FOR PARTIALLY PENETRATING WELLS-: 40 : 4.80 : 1.2960 : 14 : 1.330 : 3.320 : 5.00 : 1.2030 : : 17 : 4 . 2.55 a. 94 : 5.97 6.00 : 1.2900 : : 18 : ٧.3 3.310 4.78 7.00 : 1.1969 : FOR FULLY PENETRATING WELLS-17: 3.39 2.300 10.00 : 1.1939 : Ç = 1.97 20 : 3.290 21 : 7.00 7.01 1.280 20.00 : 1.1275 --- EVALUATION OF LHERe/Erisub with 13MST.1 \* 9.5381 : 24 COMET.2 4 1.1282 \*(MAI. OF 6.0)\* 2.1252 **25** : LHiffe/ir see wi . 2á EFFECTIVE : sum c (for samemack emmaterine) = 27 : 25.1 :1/T)(LB(Yo/Yt)) (9.0PE; \* -7.4(E-02 sec^(-1) 29 1 : : HYSRAULIC COMMUCTIVITY . 30 : (E) a 1.36E-04 ft/sec 31 : 4.14E-03 ca/sec 37 t=2-45 Aceression Outsut: 1.45E-00 Constant 33 : Std Err of Y Est 0.0054 A Squares 37 : No. of Shservations Jearess of Freedom : 39 : 40 : I Conférences -7.41E-02 : 41 : Std Err at Coet. 0.0047 1 42 1 : 45 :

EDUNCE AND RICE METHOD FOR INTERPRETATION OF SLUG TESTS: FOR UNCOMPINED AND LERKY CONFINED ADUSTERS.

PROBLEM CAN INCLUDE EFFECTS OF SHREFHOL DEMATERING HESSIGNS HATES IS ASSIST ACTION THE SANGRACKY.

TO UTILIZE THIS WORKSHEET, ENTER YOUR DATA AT LOCATIONS MARKED BY AN "S".



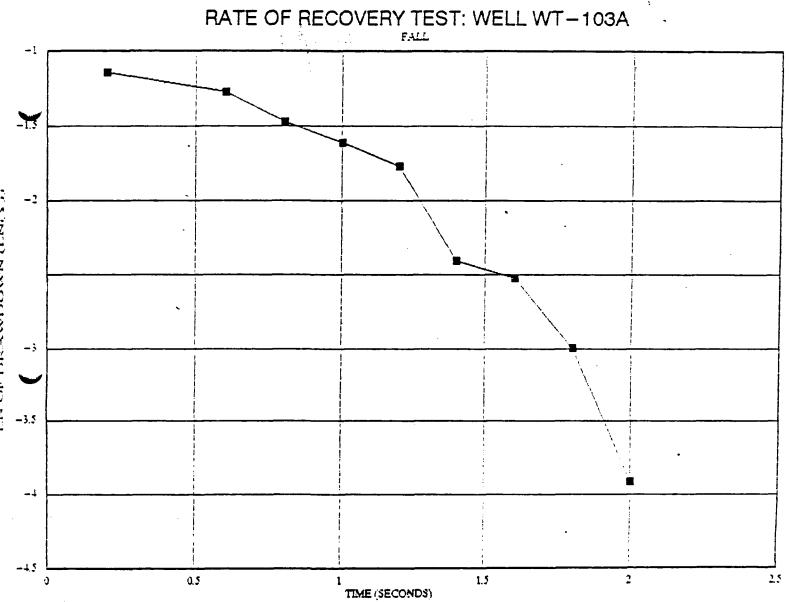


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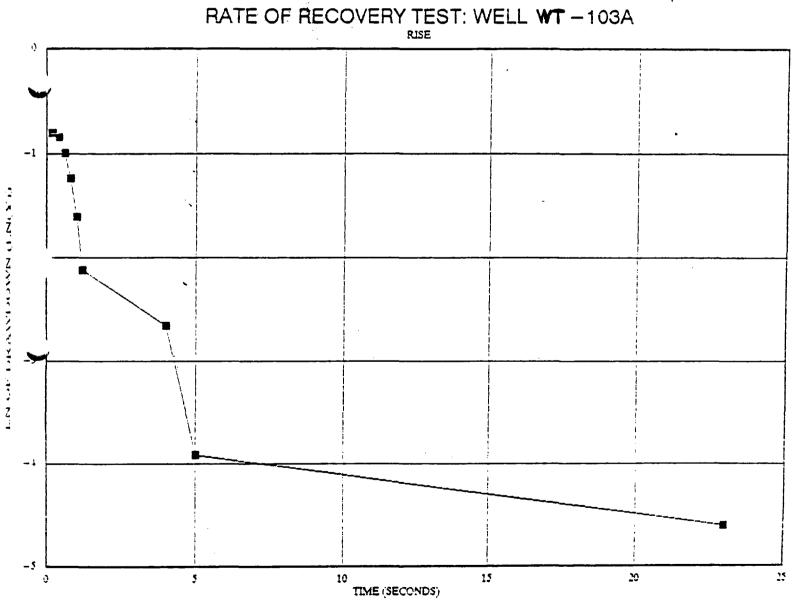
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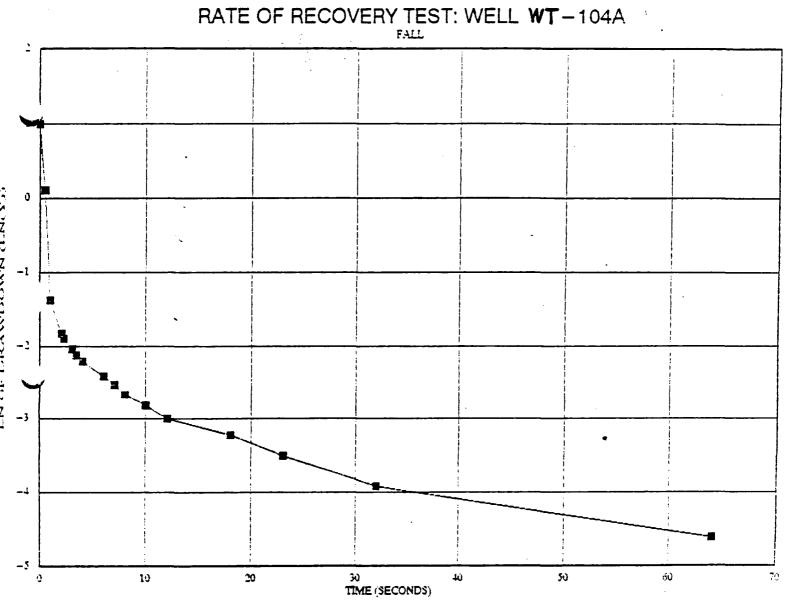
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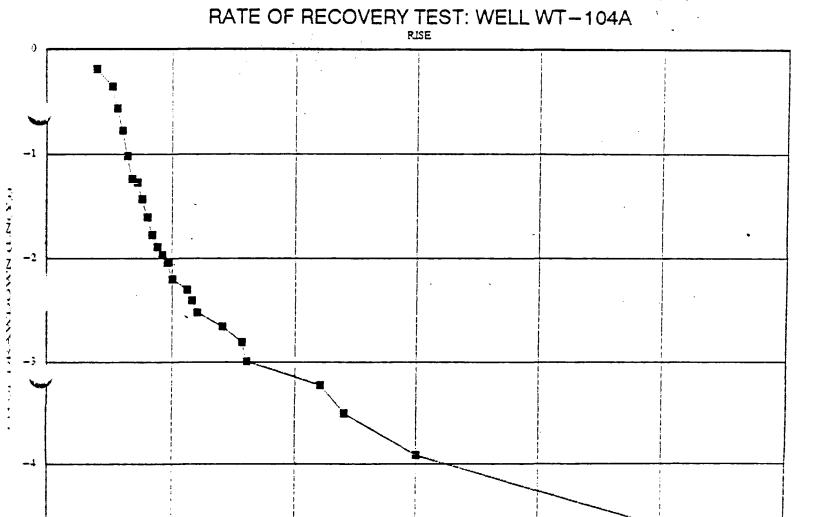


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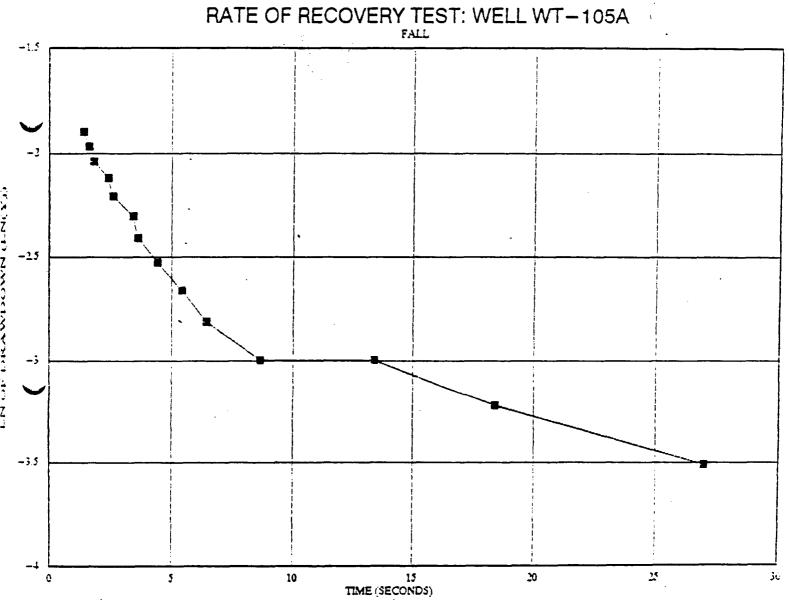
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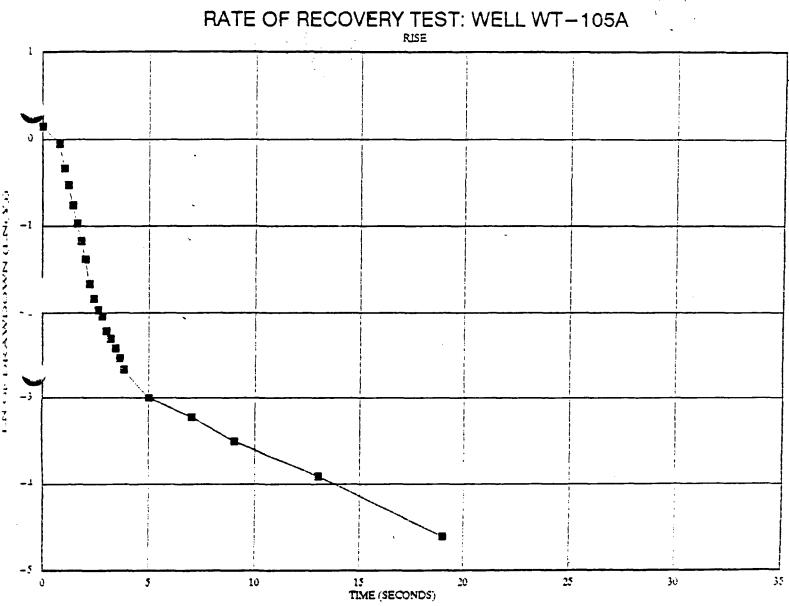
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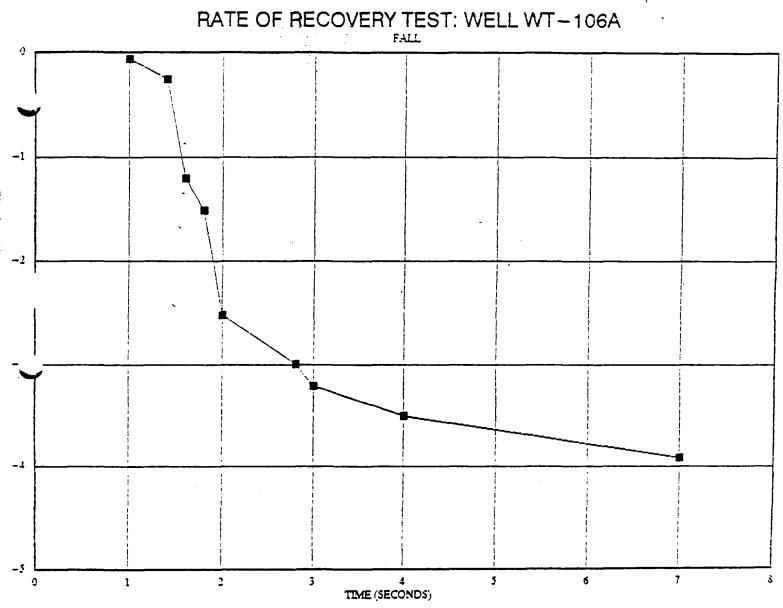
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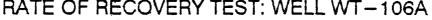
P AND RICE METHOD ROP INTERPRETATION OF BLUE TESTS: TOD SUNCOFFINED AND LEWY COMPINED AND FOR TO STRUCK ON DATA AT COCATIONS MAKED IN A FT.
REGISSAN CAN SMELLINE SPECTS OF SAMPACA NEWSTEING ANDREW MICH IS ASSISTED BEING METHOD.

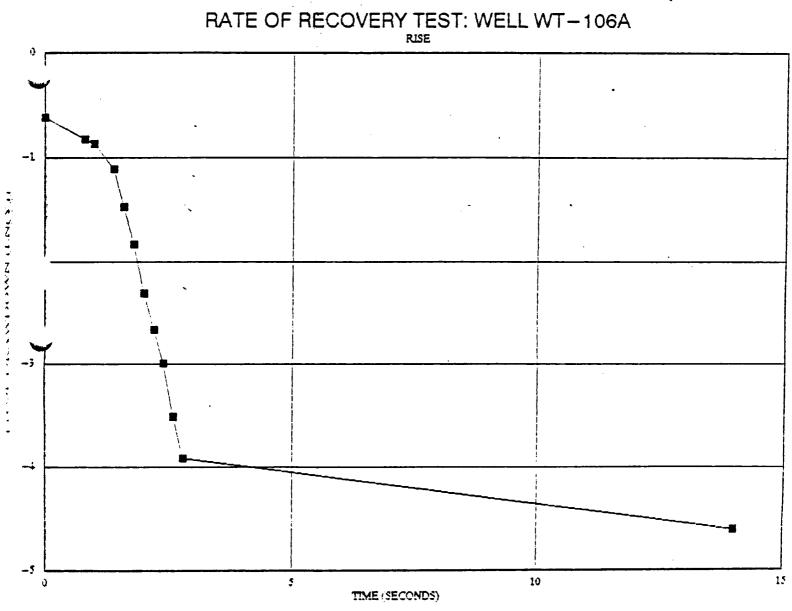
RISING BITHER THE SAMPROXI.



SCHER WAY SIZE HETWOOD TO INTERPRETATION OF BLUE TESTS: FOR INCOMPINED WAS LEART CONFINED ANDIFERS.
TO LITLIZE THIS WORKSHEET, ENTER FOUND DATA AT LOCATIONS SHANCED AT AN "Y".
THE SHAMPHOYN DEWATTERING WESSELLE WITCH SERVICE SERVING WITHIN THE SHAMPHOYN.

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##ER PC. (FF   CF)   CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF    CF		0.0458		Std Err of Y Est		•- ••				L'US
######################################	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	iii	Regression Output:		·· •• •			: ·		: 21 :
### ATTER PL. (N) (E) (N) PROMINET NO STOCKAGE ####################################	(	1.5%-43 fV sec 4.71%-43 ca/sec	8	MARKET COMMELL	·	- <b> +</b>		 		1285
### ATTER PL. (N) (E1) (V) MPHILET NO : 2002-024  8.46 5.50 5.40 9.20 9.2210 INVE COLLETS 10.04 PARTIES  8.55 6.440 9.20 9.2210 INVE COLLETS 10.04 PARTIES  8.50 5.40 9.20 9.2210 INVE COLLETS 10.04 9.20 9.20 9.20 9.20 9.20 9.20 9.20 9.20		8	c (for sandmack dewate ) (SLOPE) =	GTELLINE r sub	•			 		 
### ATER PL. (N) (E1) (V) INPULEIT NO ENGLET NO ENGLAND PLANE  8.46 (0.440 n.26 s.).2210 INVE COLLEGES (12.140)  8.47 (0.440 n.26 s.).2210 INVE COLLEGES (12.140)  8.48 (0.440 n.26 s.).2210 INVE COLLEGES (12.140)  8.49 (0.420 n.26) -1.4022 INTENTION SATES (12.140)  8.49 (0.420 n.26) -1.4023 INTENTION SATES (12.140)  8.49 (0.420 n.26) -1.4023 INTENTION SATES (12.140)  8.49 (0.400 n.26) -1.2023 INTENTION SATES (12.140)  8.49 (0.400 n.26) -1.4023 INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES (12.140)  8.40 (0.400 n.26) INTENTION SATES		2.06		UIOH/ir		•				. u
### ATER PL. (N) (E1) (V) POMINET NO : 2004-004  8.46 0.500 0.000 -0.112 FRANCET FELLOS  8.50 0.440 0.200 -0.112 FRANCET FELLOS  8.50 0.420 0.200 -0.12210 FRANCET FELLOS  8.51 0.420 0.200 -0.12210 FRANCET FELLOS  8.52 0.420 0.200 -0.1222 FRANCET FELLOS  8.53 0.100 0.200 -0.1223 FRANCET FELLOS  8.55 0.000 0.1200 -0.1202 FRANCET FELLOS  8.57 0.000 0.1200 -0.1202 FRANCET FELLOS  8.59 0.000 0.1200 -0.1202 FRANCET FELLOS  8.50 0.000 0.1200 -0.1202 FRANCET FELLOS  8.50 0.000 0.1200 -0.1202 FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANCET FRANC	i. 0008		6.2091				,			: ≱ ti
### ATTER PL. (N) (E) (N) PROMINET NO : 2002A-024  #### B.48 (3.540 9.20 -0.1162 FMALST 10.2150 10.2150 90.205  ###################################			OF LH(Re/!? Sup w)):	EVALUATION						11:
### ATTER PL. (N) (E) (N) PROMINET NO EPICON PROMINE   8.49 (0.440 (0.20 -0.2112 FRAM_ST) (0.2153 (0.2146)   8.40 (0.440 (0.20 -0.2210 INVE COLLETS) (0.2146) (0.2146)   8.40 (0.440 (0.20 -0.2210 INVE COLLETS) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (0.2146) (				•	. <b></b> .					 
### ATTER PL. (N) (E) (N) PROMINET NO : 2004-004  8.46 5.50 5.40 9.20 9.210 INVE COLLEGE : ELMS  8.55 6.440 9.20 9.2210 INVE COLLEGE : ELMS  8.55 6.440 9.20 9.2210 INVE COLLEGE : ELMS  8.57 0.420 1.00 9.1267 INVESTIGATE : ELMS  9.78 0.420 1.00 9.1267 INVESTIGATE : ELMS INVESTIGATE : No N = ELM IN = ELMS  9.140 1.00 9.1202 INVESTIGATE : ELMS INVESTIGATE : NO N = ELMS  9.150 0.100 1.00 9.1202 INVESTIGATE : ELMS INVESTIGATE : NO N = ELMS  9.00 0.100 1.00 9.1202 INVESTIGATE : ELMS INVESTIGATE : NO N = ELMS  9.01 0.000 1.00 9.1202 INVESTIGATE : ELMS INVESTIGATE : NO N = ELMS  9.01 0.000 1.00 9.1202 INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS  9.01 0.000 1.00 9.1202 INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS  9.01 0.000 1.00 9.1202 INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : NO N = ELMS INVESTIGATE : N = ELMS INVESTIGATE : N = ELMS INVESTIGATE : N = ELMS INVESTIGATE : N = ELMS INVES			•	FOR FILLY POET						
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#### APPENDIX B

SLUG TEST FIELD FORMS

Оолорие сении	INFIELD HYD	RAULIC	CONDU	CTIVITY	SHEET	OF
ARCHITECTS	;	SLUG TI	EST			
SCIAPTISTS						
PROJECT NO.: 200	26 023	· WE	L NUMBER:	PIDA	B	
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	2901.				<del>`-</del>	
CLIENT: USEPA		тот	AL DEPTH OF V	VELL:	67.331	
WELL DRILLED BY:	nn Mathes & Asso	C DEP	TH OF WATER	IN WELL:	67.339 58 45	
DATE TEST PERFORMED:	Jan 4, 1991	INIT	AL TRANSDUC	ER WATER LEV	EL: 4,76	
TIME TEST PERFORMED:	1300				VEL:	
TOP OF PIPE ELEVATION:		DW	METER OF BOR	EHOLE: 2'	<del>/</del>	
	OMETER (girde):	DIAM	METER OF PIPE	:	<del>,</del>	
FALL/RISE TEST (circle)		_ SCR	EEN LENGTH:	<u> </u>	20+	<del></del>
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	Silve a Sand	13				
۷ ا	Weil Serren	14				
	Well screen	15 16				
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""L" length is less than the san the water table intersects sand will equal distance between we bottom of sand pack.	pack, where "L"	PRESSURE TR	ANSDUCER PS EEL SLUG LEN	т <u> </u>	feet	
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WELL DRILLED BY:C	hn Mathe & Associ	,	TH OF WATER			_
DATE TEST PERFORMED			IAL TRANSDUC			
TIME TEST PERFORMED	• • • • •	<del></del>	TIC TRANSDUC	_	-	2
TOP OF PIPE ELEVATION		_	METER OF BOR			
	EZOMETER (circle):		METER OF PIPE			
FALLIPISE TEST (circle)	ENED IN: CLITUSH SP		EEN LENGTH: ECTIVE SCREE!			<del></del>
STATIC WATER LEVEL (T	· · · · · · · · · · · · · · · · · · ·	Err	ECTIVE SCHEET	N LENGTH "C	: S TEEL	<del></del>
STATIO WATER CEVEL (I	.O.F.j.	<del>-</del>				
Oata	T-Bar		SILOG II	LOGGING SE	DUENCE	
Logger C	Protective Casing 2° PVC Casing	SEGMENT NUMBER	NUMBER OF READINGS	INTERVAL (SEC.)	SEGMENT DURATION (SEC.)	ELAPSED TIME (SEC.)
*************	THE HERE THE	1	5	V5		
1 1		2	1 - 5	145		3
1 : 11		3				-1-
الملند ا		5		*		न
<b>│</b>		8		1		G
		7		·		
Pressure	₩ater Level	8				4
Transducer	Stainless Steel Slug	10				16
	and it said	11	25	115	5	5
	Bentonik Seal	12	<u>a5</u>		25	20
	Silve Sand	13	30	==	<del>30</del> 150	<del>20</del> 0
1 4	Well Screen	15				
<u> </u>		16				
"L" length is less than the			WASDUCER PS		<del></del>	
will equal distance between		STAINLESS ST	TEEL SLUG LEN	GTH: <u>4</u>		
bottom of sand pack.						
NOTES: Paran to	ost at 1241 o	Station	03 trai	STLUGE	state 9,	98
	start rising tes		for to	<u> </u>		
TEST PERFORMED BY:	TOH PUCHALSKI	_	114191			
LOGGER DOWNLOADED		DATE	1/2/01			
CALCULATIONS BY:	(=	DATE	:			
COMPUTER FILE NAME:	DICIO R	_				
	E					1

ROJECT NO.: 20026.023 TE: HIMCO  JENT: VS 8 P# ELL DRILLED BY:		I NI MARCE.			
JENT: <u>V.5</u> & P.#	LO		<u>5-3</u>		<del></del>
		GER ID NUMBI	==: <u>719</u>	<u>CZI</u>	
FILDRILLED BY:		AL DEPTH OF			
		TH OF WATER			
ATE TEST PERFORMED: 12-14-90		TAL TRANSDUC	ER WATER LEV	/EL:	
ME TEST PERFORMED: 11'15	•	TIC TRANSDUC			
OP OF PIPE ELEVATION:		METER OF BOR			
BSERVATION WELL/PIEZCMETER (circle):		METER OF PIPE			
LL/RISE TEST (circle) Both		REEN LENGTH:			
PRMATION WELL SCREENED IN:		ECTIVE SCREE	N LENGTH" "L"	•	<del></del>
TATIC WATER LEVEL (T.C.P.):					
cata		SILOG II	LOGGING SEC	DUENCE	
Antherine Cesing 2° PVC Cains	SEGMENT NUMBER	NUMBER OF READINGS	INTERVAL (SEC.)	SEGMENT DURATION (SEC.)	ELAPSED TIME (SEC.)
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	QH2 1	50	O.Z	10	/
	2	15	1	15	15
; [ ] [ ] ;	3	15	<u> </u>	.75	75
; <u> </u>	4	15-	.30	450	450
	5		<del></del>		
	1	50	0.2	10	IV)
Pressure Water Leve	1 4 7		1	15	15
Transducer Stainless Steel S	<u> </u>	15		25	25
Sygniess Steel S	~ <del></del>	15	30	450	450
Bestonik Seel	11				
	<del>''*</del>				
	13		I I		1
Silva Sand	13				

	INFIELD HYD	RAULIC	CONDU	CTIVITY	' SHEET_	CF
Domoinue commens	•	SLUG TI	EST			
1CIAP FISTS			-0.			
	)			_ ~		
PROJECT NO.: 200		<del></del>	LL NUMBER:			<del></del>
SITE: HINCO	<del></del>	roc	GER ID NUMBI	er: <u>719</u>	<u>c2/</u>	
CLIENT: FPA		<del></del>	AL DEPTH OF			<del></del>
WELL DRILLED BY:			TH OF WATER	<del></del>		<del></del>
DATE TEST PERFORMED: _			IAL TRANSDUC			<del></del>
TIME TEST PERFORMED: _	<u>8950</u>	STA	TIC TRANSDUC	ER WATER LE	VEL: 10.0	<u> </u>
TOP OF PIPE ELEVATION:		DIAM	METER OF BOR	EHOLE:		
OBSERVATION WELL PIEZO	)METEB (airde):	DIAM	METER OF PIPE	5"		<u>-</u>
FALL/RISE TEST (circle)	Both-					
FORMATION WELL SCREEN			ECTIVE SCREE			
STATIC WATER LEVEL (T.C.)						
,						
Data	T-Bar		SILOG I	LOGGING SEC	OUENCE	
Logger	Protective Casing	SECUENT.			SEGMENT	ELAPSED
	2" PVC Casing	SEGMENT NUMBER	NUMBER OF READINGS	INTERVAL (SEC.)	DURATION	TIME
78X (H, U11008)	SHOW HARDSON	1	ا جر)	8.3	(SEC.)	(SEC.)
	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2	15	31.7	15	15
!		3	15	5	75	75
	11_	4	15	30	450	450
المسلسل		5		1,45		
· ——						
`		7				
Pressure	Water Level	8				·
Transducer	Stainless Steel Slug	9				·
	Stantitus site study	10		•		
	Bentonite Seal	11				
<del>-,</del>		13				
	Silva Sand	14				
	Well Screen	15				
		16				
**L* length is less than the sa	nd pack length if	PRESSURE TE	ANSDUCER PS	it 15		<del></del>
the water table intersects san	id pack, where "L"		TEEL SLUG LEN			
will equal distance between v bottom of sand pack.	vater table and			<u> </u>		
DOUBLIT OF SELECT POSICE						
NOTES: Icicith for	d AS 02					
					·	
TEST PERFORMED BY:	City. T MOSIA	DATE	12-3-6	10		
			12 - 2 -		<u>, , , , , , , , , , , , , , , , , , , </u>	
LOGGER DOWNLOADED BY					<del></del>	<del></del>
CALCULATIONS BY:		_ UAIE				
COMPUTER FILE NAME:		_				]

Donohue	INFIELD HYD	. –		CTIVITY	SHEET_	CF
AMERITYCTS ACIDA (1875		SLUG TI	EST			
PROJECT NO.: 2402	6 623	WE	LL NUMBER:	F-1		
1 .			_		2.7	
ATT. TELL		_ •••			<u> </u>	
CLIENT: EPA						
			TH OF WATER	IN WELL:	R.45'	·
		_	IAL TRANSDUC	ER WATER LE	/EL:	
TIME TEST PERFORMED:	0915	STA	TIC TRANSDUC	ER WATER LE	VEL:	<u>05</u>
TOP OF PIPE ELEVATION:						
OBSERVATION WELL/PIEZ	OMETER (circle):		METER OF PIPE	2"		
FALL/RISE TEST (circle)	Both					
I						
STATIC WATER LEVEL (T.C	.P.):					
Data	-T-Bar		SILOG II	LOGGING SE	QUENCE	
Logger	Protective Casing 2° PVC Casing	SEGMENT NUMBER	NUMBER OF READINGS	INTERVAL (SEC.)	SEGMENT DURATION (SEC.)	ELAPSED TIME (SEC.)
788784477884	ALCHOHUM BOND	1	50	0.2		i G
		2	15		30	30
1 1 1	1;	3	15	ユ	30	30
! ! ! ]		4				
		5				•
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	₩.,,,,,					·
	→ Mater reket	9				<del> </del>
ransducer	Stainless Steel Slug	10				
		11				<del></del>
	Bentanite Seal	12				
	Silve a Sand	13				<del> </del>
۷ ا						
	Well Screen					
Y [1]	Pressure  Transducer  Stainless Steel Slug  Segment Number of Interval Ouration (SEC.) (SEC.)  Water Level  Stainless Steel Slug  Stainless Steel Slug  Stainless Steel Slug  Stainless Steel Slug  Stainless Steel Slug  PRESSURE TRANSDUCER PSI: 15  Water table intersects sand pack, where "L' is equal distance between water table and  PRESSURE TRANSDUCER PSI: 4/  STAINLESS STEEL SLUG LENGTH: 4/  STAINLESS STEEL SLUG LENGTH: 4/  STAINLESS STEEL SLUG LENGTH: 4/					
the water table intersects sai	nd pack, where "L"				-	
MOTEO Toda 6/						
				·		
TEST PERFORMED BY:	RIPLY, T. KCACA	DATE	12-2	-90		
LOGGER DOWNLOADED BY	/:	DATE	<u></u>			
CALCULATIONS BY:			:			
COMPUTER FILE NAME:						
		<del>-</del>				]

Donotane chainsess coantrers	INFIELD HYD	RAULIC SLUG TI		CTIVITY	SHEET	/_ CF _/	
PROJECT NO .: ZCC.		LOC	L NUMBER:	1-1-1 ER: 717	21	<del></del>	
		_			,	<del></del>	
CLIENT: EPA	·	TOT	AL DEPTH OF V	WELL: 10	t. 50'		7
WELL DRILLED BY:		DEP	TH OF WATER	IN WELL:	16.10		
WELL DRILLED BY: DATE TEST PERFORMED:	12-2-40		IAL TRANSDUC	ER WATER LE	/EL:	· · · · · · · · · · · · · · · · · · ·	
TIME TEST PERFORMED:	1130	STA	TIC TRANSDUC	ER WATER LE	/EL: 99	· · ·	}
OP OF PIPE ELEVATION:						<del></del>	
BSERVATION WELL PIEZON			METER OF BOR METER OF PIPE	. Z"			
FALL/RISE TEST (circle)	for-		EEN LENGTH:			<del></del>	
FORMATION WELL SCREENE		_	ECTIVE SCREE				
STATIC WATER LEVEL (T.C.P.				·	•		
- h	-Bar		611 00 11	LOGGING SE	NIENCE		+
Oata Logger	Protective Casing				SEGMENT	ELAPSED	4
	2° PYC Casing	SEGMENT NUMBER	NUMBER OF READINGS	INTERVAL (SEC.)	DURATION (SEC.)	TIME (SEC.)	FAIL
W. W. W. W. W. W. W. W. W. W. W. W. W. W	THE HERESTHA	1	50	02	10	/(C	
` /~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2	15	1	15	15	HEA
- 111	j	3	15	5	75	75	]ノ
		4	15	30	450		_ حمق
المسلملية		5				<del> </del>	120
		10	50	0.2	10	10	Soler
	lacksquare	7 2	15 15 2		15 30	15 30	1
Pressure	water Level	-4-4-	15 70	-, <del>c</del>	- J	<u> </u>	
Transducer	Stainless Steel Slug	70 1	نها	10	(iil)	(, ()	1
		11					
	Bentonik Seal	12					
	Silka Sand	13	,		<u> </u>		-
۷ ا		14					{
	Well Screen	15 16					
T. I lead to the second of	d near leasts is		PANSOUCER PS	ı. 15			
"L" length is less than the san he water table intersects sand	nack where # *			*	<del>,</del>		
vill equal distance between wa	•	STAINLESS ST	TEEL SLUG LEN	GIR:	<del></del>		
ottom of sand pack.							
HOTES: FAILING F	tend test sh	eard -	Ceturni	d h 51	かカム		
	A Company of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the Land of the L	TT JA	2 Sugar	ent 4	us com	15-40	
		7					
Station ID	#.3				<del></del>		
EST PERFORMED BY: C.F.		/_ DATE	12-	7 - 90			
OGGER DOWNLOADED BY:		_ UATE	<u> </u>				
CALCULATIONS BY:			<b>:</b>			í	

SLUG TEST  SOLECT NO.: 20026723 WELL NUMBER: M-2  LOGGER ID NUMBER: 719021  LENT: EPA TOTAL DEPTH OF WELL: 24,807  DEPTH OF WATER IN WELL: 15,25  INITIAL TRANSDUCER WATER LEVEL:  STATIC TRANSDUCER WATER LEVEL: 904  DIAMETER OF BOREHOLE: 044  DIAMETER OF PIPE: 2"  SCREEN LENGTH:  CATIC WATER LEVEL (T.C.P.):	Donolate mains	INFIEL	D HYDRAUL	IC CONDU	CTIVITY	/ SHEET_	OF
LENT: FPA  TOTAL DEPTH OF WELL: 14, 50.7  DEPTH OF WELL: 15, 25  MITE TEST PERFORMED: 12-3-40  WINTEL TRANSDUCER WATER LEVEL:  STATIC TRANSDUCER WATER LEVEL:  SERVATION WELL/PIEZOMETER (circle):  DAMETER OF PIPE-LEVATION:  DAMETER OF PIPE- Z."  SCREEN LENGTH:  SCREEN LENGTH:  EFFECTIVE SCREEN LENGTH**  ATIC WATER LEVEL (T.C.P.):  DAMETER OF BORNOGS  SEGMENT NUMBER OF INTERVAL SEGMENT TIME (SEC.)  SEGMENT NUMBER READINGS (SEC.)  TRANSDUCER  Water Level 3  SILOG II LOGGING SEQUENCE  SEGMENT NUMBER READINGS (SEC.)  SEGMENT NUMBER READINGS (SEC.)  TRANSDUCER  Water Level 3  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SH	******	71 71	SLUG	TEST			
LENT: FPA  TOTAL DEPTH OF WELL: 14, 50.7  DEPTH OF WELL: 15, 25  MITE TEST PERFORMED: 12-3-40  WINTEL TRANSDUCER WATER LEVEL:  STATIC TRANSDUCER WATER LEVEL:  SERVATION WELL/PIEZOMETER (circle):  DAMETER OF PIPE-LEVATION:  DAMETER OF PIPE- Z."  SCREEN LENGTH:  SCREEN LENGTH:  EFFECTIVE SCREEN LENGTH**  ATIC WATER LEVEL (T.C.P.):  DAMETER OF BORNOGS  SEGMENT NUMBER OF INTERVAL SEGMENT TIME (SEC.)  SEGMENT NUMBER READINGS (SEC.)  TRANSDUCER  Water Level 3  SILOG II LOGGING SEQUENCE  SEGMENT NUMBER READINGS (SEC.)  SEGMENT NUMBER READINGS (SEC.)  TRANSDUCER  Water Level 3  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SHAPSED  SH	POJECT NO.: 2	2026 7.23		WELL NUMBER:	M-2		
DEPTH OF WATER IN WELL: 15.25  ATE TEST PERFORMED: 12.70  ME TEST PERFORMED: 12.70  ME TEST PERFORMED: 12.70  ME TEST PERFORMED: 17.70  DIAMETER OF BOREHOLE: STATIC TRANSDUCER WATER LEVEL: 9.37  DIAMETER OF BOREHOLE: DIAMETER OF PIPE: 2"  SCREEN LENGTH: SCREEN LENGTH: 1.7  ATIC WATER LEVEL (T.C.P.):  DATE TO BUT SERON NUMBER OF INTERVAL SEGMENT BLAPSED OF INTERVAL SEGMENT BLAPSED OURATION TIME (SEC.)  DATE TO BUT SEGMENT NUMBER OF INTERVAL SEGMENT BLAPSED OURATION TIME (SEC.)  STATIC TRANSDUCER WATER LEVEL: 9.37  SCREEN LENGTH: 1.7  SILOG II LOGGING SECUENCE  SEGMENT NUMBER OF INTERVAL SEGMENT BLAPSED OURATION TIME (SEC.)  SEC.)  STANLESS STEEL SLUG LENGTH: 1.7  PRESSURE TRANSDUCER PSI: 1.7  PRESSURE TRANSDUCER PSI: 1.7  PRESSURE TRANSDUCER PSI: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5TANLESS STEEL SLUG LENGTH: 5T	,						
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DIAMETER OF BOREHOLE:  SERVATION WELL/PIEZOMETER (GIRDE):  DIAMETER OF PIPE:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  STLOG II LOGGING SEQUENCE  LOGGING SEQUENCE  SILOG II LOGGING SEQUENCE  SILOG II LOGGING SEQUENCE  SILOG II LOGGING SEQUENCE  SEGMENT NUMBER OF INTERNAL SEGMENT DURATION TIME (SEC.)  SEC.)  SEGMENT NUMBER READINGS (SEC.)  SEC.)  SEGMENT NUMBER READINGS (SEC.)  SEC.)  SEC.)  SEC.)  STANLESS STEEL SLUG LENGTH:  PRESSURE TRANSDUCER PSI:  STAINLESS STEEL SLUG LENGTH:  PRESSURE TRANSDUCER PSI:  STAINLESS STEEL SLUG LENGTH:  PRESSURE TRANSDUCER PSI:  STAINLESS STEEL SLUG LENGTH:  STAINLESS STEEL SLUG LENGTH:	ate test perfora	AED:	<del>-110-</del>				<del></del>
SERVATION WEAL PIEZOMETER (circle):  DIAMETER OF PIPE:  SCREEN LENGTH:  SCREEN LENGTH:  STATIC WATER LEVEL (T.C.P.):  Data  Casing  SEGMENT NUMBER OF INTERVAL SEGMENT DURATION TIME (SEC.)  SEGMENT NUMBER READINGS (SEC.)  SEGMENT NUMBER READINGS (SEC.)  SEGMENT SEGMENT OF TIME (SEC.)  SEGMENT TIME (SEC.)  SEGMENT SEGMENT OF TIME (SEC.)  SEGMENT TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME (SEC.)  SEGMENT OF TIME						VEL EU	3
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DATA  ATIC WATER LEVEL (T.C.P.):  DATA  Conger  Protective Casing  2° PVC Casing  NUMBER READINGS  SEGMENT NUMBER OF INTERVAL SEGMENT DURATION (SEC.)  SEGMENT NUMBER READINGS  (SEC.)  10  11  12  33  4  5  6  7  7  11  12  13  14  11  12  13  14  11  11  11  12  13  14  11  11  11  12  13  14  14  11  11  12  13  14  15  Sentaniless Steel Slag  10  11  11  12  13  14  14  14  15  PRESSURE TRANSDUCER PSI:  Invariate table intersects sand pack, where "L"  I equal distance between water table and							
Date Logger Protective Cesing Logger Protective Cesing SEGMENT NUMBER OF INTERVAL DURATION (SEC.)  TIME (SEC.)  Water Level  Stainless Steel Stag  10  Bentonink Seal  11  Bentonink Seal  12  Interval  SEGMENT NUMBER OF INTERVAL (SEC.)  Water Level  Stainless Steel Stag  10  11  Bentonink Seal  12  Interval  SEGMENT OURATION (SEC.)  Water Level  Stainless Steel Stag  10  11  Bentonink Seal  12  Interval  SEGMENT OURATION (SEC.)  PRESSURE TRANSDUCER PSI:  Water table intersects sand pack, where "L"  Requal distance between water table and  STAINLESS STEEL SLUG LENGTH:							
SILOG II LOGGING SEQUENCE  Protetive Casing SEGMENT NUMBER OF INTERVAL DURATION TIME (SEC.)  1				EFFECTIVE SCREE	N LENGTH" "L	*:	
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NUMBER READINGS (SEC.)    1	Data		Caria	SILOG II	LOGGING SE		
Transducer  Stainless Steel Slug  10  11  Bentonite Seal  12  13  14  Well Screen  15  Well Screen  16  PRESSURE TRANSDUCER PSI:  I equal distance between water table and  STAINLESS STEEL SLUG LENGTH:		2º PVC	Caing SEGMEI			DURATION	TIME
Transducer  Stainless Steel Slug  10  11  Bentonite Seal  12  Silica Sand  14  Well Screen  15  length is less than the sand pack length if water table intersects sand pack, where "L"  equal distance between water table and  STAINLESS STEEL SLUG LENGTH:		WALKER TO THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PROPERTY OF THE TOTAL PR	DEPLICATION 1				(0.0.0)
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Water Level    Transducer			<del></del>				
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Obstruction At ~ 16' 3/cg could Not go down , veil - Redone on 12-14-90 with 2' alia; form attacked	ALLEHLAUMEN DI	_					
Obstruction At ~ 16' Slug could Not go dawn up 1 - Redone on 12-14-90 with 2' oling; form attacked  ST PERFORMED BY: CECUL-, T KC/Ch DATE: 12-2-90							
Obstruction At ~ 16' 3/cg could Not go down , veil - Redone on 12-14-90 with 2' alia; form attacked	GGER DOWNLOAD						

DESCRIPTION CONTRACTOR CONTRACTOR	INFIELD HYD	RAULIC SLUG TI		CTIVITY	' SHEET_	OF	-
PROJECT NO.: 200	26.023	WEI	L NUMBER:	M- 2			
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į.					5.27		
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TIME TEST PERFORMED:		STA	TIC TRANSDUC	ER WATER LE	VEL: 7. C	27 .	Ì
TOP OF PIPE ELEVATION:			METER OF BOR	EHOLE:			
OBSERVATION WELL/PIEZO		<del></del>	METER OF PIPE	<u> </u>	·		
FALL/RISE TEST (circle)		SCA	EEN LENGTH:				
FORMATION WELL SCREEN					:		
STATIC WATER LEVEL (T.C.							
<i></i>							
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SITE: HIMCO	LOG	GER ID NUMB	ER: _7190	21	<del></del>
CUENT: EPA CONTROL		AL DEPTH OF	WELL:	7870	
WELL DRILLED BY:	#15 DEP	TH OF WATER	IN WELL:	<u>- 11.26</u>	بر کر ا
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TIME TEST PERFORMED: 1428 ≠ 1436	STA	TIC TRANSDUC	ER WATER LEV	/EL: 7.02	<u>'                                    </u>
TOP OF PIPE ELEVATION:		METER OF BOR			
OBSERVATION WELL/PIEZOMETER (circle):	DIAM	METER OF PIPE	<u> 2"</u>		
FALL/RISE TEST (circle) Both	SCR	EEN LENGTH:	<del></del>		<u> </u>
FORMATION WELL SCREENED IN:	EFFI	ECTIVE SCREE	N LENGTH" "L"		
STATIC WATER LEVEL (T.C.P.):	<del></del>				
Data T-Bar		SILOG I	LOGGING SEC	UENCE	
Logger Protective Casing 2° PVC Casing	SEGMENT NUMBER	NUMBER OF READINGS	INTERVAL (SEC.)	SEGMENT DURATION (SEC.)	ELAPSED TIME (SEC.)
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Well Series	15				
	16				
**L* length is less than the sand pack length if	SLUG TEST  WELL NUMBER: NIT 10 1 A  LOGGER ID NUMBER: 19021  TOTAL DEPTH OF WELL: 1900  ST PERFORMED: 12 1 190  ST PERFORMED: 1420 + 1430  ST PERFORMED: 1420 + 1430  STATIC TRANSDUCER WATER LEVEL: 7.02'  DIAMETER OF BOREHOLE:  DIAMETER OF BOREHOLE:  DIAMETER OF PIPE: 2."  SCREEN LENGTH: 1."  SCREEN LENGTH: 1."  WATER LEVEL (T.C.P.):  SEGMENT NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SURGENTY NUMBER OF INTERVAL SUR				
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LOGGER ID NUMBER: 719021  NT: USCPH LORILLED BY: LORILLED BY: ETEST PERFORMED: 13-14-90 INITIAL TRANSDUCER WATER LEVEL: TEST PERFORMED: 14-30 STATIC TRANSDUCER WATER LEVEL: TO I DIAMETER OF BOREHOLE ERNATION WELL SIZOMETER (circle): DIAMETER OF PIPE: 3" SCREEN LENGTH: ERNATION WELL SCREENED IN: EFFECTIVE SCREEN LENGTH: 1:  IC WATER LEVEL (T.C.P.):  TOTAL DEPTH OF WELL: 18.16 DEPTH OF WATER IN WELL: 10.29  DIAMETER OF BOREHOLE: TO JUMETER OF PIPE: 3" SCREEN LENGTH: EFFECTIVE SCREEN LENGTH: 1:  SEGMENT NUMBER OF INTERVAL DURANTON DIRAKTION DIRAKTION DIRAKTION (SEC.) (SEC.) (SEC.) (SEC.) SEGMENT NUMBER OF INTERVAL DURANTON DIRAKTION (SEC.) (SEC.) SEGMENT NUMBER OF INTERVAL DURANTON DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTION DIRAKTIO	LOGGER ID NUMBER: 71902/  NT: USEPH OF WELL: 19.16  DEPTH OF WELL: 19.16  DEPTH OF WATER IN WELL: 10.39  INTIAL TRANSDUCER WATER LEVEL: 7.01  OF PIPE BLEVATION: DIAMETER OF BOREHOLE  ERVATION WELL PIEZOMETER (circle): DIAMETER OF PIPE 3."  PRISE TEST (circle) BOTH SCREEN LENGTH: 1.  TO WATER LEVEL (T.C.P.):  TO WATER LEVEL (T.C.P.):  TO WATER LEVEL (T.C.P.):  TO WATER LEVEL (T.C.P.):  TO WATER LEVEL (T.C.P.):  TO ULL 10 10  2 15 15 15 15 15 75 75 75  TO ASSURE  TO ASSURE  Water Level  String Sand  11 50 0.2 10 10  TO TO TO TO TO TO TO TO TO TO TO TO TO T	16148 (1871	•	SLUG TI	201			
TOTAL DEPTH OF WELL: 18.16  L DRILLED BY:  ETEST PERFORMED: 13-14-90  INITIAL TRANSDUCER WATER LEVEL:  TREST PERFORMED: 14.30  OF PIPE E EVATION:  DIAMETER OF BOREHOLE  ERVATION WELL PIEZOMETER (circle):  DIAMETER OF PIPE: 2"  WATER LEVEL (T.C.P.):  TOTAL DEPTH OF WELL: 18.16  DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVE	TOTAL DEPTH OF WELL:    19   10   10   10   10   10   10   10	OUECT NO.: 200	26.023	WEI	L NUMBER:	WTICO	2 A	
TOTAL DEPTH OF WELL: 18.16  L DRILLED BY:  ETEST PERFORMED: 13-14-90  INITIAL TRANSDUCER WATER LEVEL:  TREST PERFORMED: 14.30  OF PIPE E EVATION:  DIAMETER OF BOREHOLE  ERVATION WELL PIEZOMETER (circle):  DIAMETER OF PIPE: 2"  WATER LEVEL (T.C.P.):  TOTAL DEPTH OF WELL: 18.16  DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER IN WELL: 10.29  INITIAL TRANSDUCER WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL:  TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVEL: TACL DEPTH OF WATER LEVE	TOTAL DEPTH OF WELL:    19   10   10   10   10   10   10   10	TE: Hims		LOG	GER ID NUMBI	ER: 719	021	
DEPTH OF WATER IN WELL:  I TEST PERFORMED:  I 7 - 14 - 90  INITIAL TRANSDUCER WATER LEVEL:  STATIC TRANSDUCER WATER LEVEL:  TO DIAMETER OF BOREHOLE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIPE:  DIAMETER OF PIP	DEPTH OF WATER IN WELL: 10.29  ETEST PERFORMED: 12-14-90  INITIAL TRANSDUCER WATER LEVEL:  STATIC TRANSDUCER WATER LEVEL: 7.C.1  DIAMETER OF BOREHOLE  ETWATION WELL PIEZOMETER (circle):  DIAMETER OF BOREHOLE  DIAMETER OF PIPE: 2"  SCREEN LENGTH:  SCREEN LENGTH:  SEGMENT NUMBER OF INTERVAL SEGMENT DURATION (SEC.)  SEGMENT NUMBER READINGS (SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)	•						
INITIAL TRANSDUCER WATER LEVEL:  TEST PERFORMED: 17:30  STATIC TRANSDUCER WATER LEVEL: 7.01  DIAMETER OF BOREHOLE:  DIAMETER OF BOREHOLE:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  MATION WELL SCREENED IN:  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  DIAMETER OF PIPE 2"  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN LENGTH:  SCREEN L	ETEST PERFORMED: 12-14-90  INITIAL TRANSDUCER WATER LEVEL: 7.C1  STATIC TRANSDUCER WATER LEVEL: 7.C1  DIAMETER OF BOREHOLE  ETENATION WELL PIEZOMETER (circle): DIAMETER OF BOREHOLE  DIAMETER OF PIPE: 2"  SCREEN LENGTH: SCREEN LENGTH: 1  IC WATER LEVEL (T.C.P.):  The second of the second pack length if attertable intersects sand pack length if attertable intersects sand pack length if attertable intersects sand pack length if attertable intersects sand pack length if attertable intersects sand pack length if attertable intersects sand pack where "  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")  STAINLESS STEEL SLIEL (SLIEL LENGTH: 4")	JENT: USEPA	<b>C</b>					
STATIC TRANSDUCER WATER LEVEL: 7.01  OF PIPE ELEVATION:  DIAMETER OF BOREHOLE  DIAMETER OF BOREHOLE  DIAMETER OF BOREHOLE  DIAMETER OF PIPE: 2"  FRISE TEST (circle):  DIAMETER OF PIPE: 2"  SCREEN LENGTH:  SCREEN LENGTH:  SEGMENT NUMBER OF INTERVAL SEGMENT DURATION TIME (SEC.)  SEGMENT NUMBER READINGS (SEC.)  SEGMENT NUMBER OF READINGS (SEC.)  SEGMENT NUMBER OF READINGS (SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)	STATIC TRANSDUCER WATER LEVEL: 7.C.1  OF PIPE ELEVATION:  DIAMETER OF BOREHOLE  DIAMETER OF PIPE 2."  SCREEN LENGTH:  SCREEN LENGTH:  EFFECTIVE SCREEN LENGTH:  TO WATER LEVEL (T.C.P.):  SEGMENT NUMBER OF INTERVAL SEGMENT DURATION TIME  (SEC.) (SEC.)  SEC.) (SEC.)  SEGMENT NUMBER OF READINGS (SEC.) (SEC.)  SEGMENT NUMBER OF READINGS (SEC.) (SEC.)  SEC.)  SEC.)  TANSDUCER VALUE OF SCREEN LENGTH:  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10  TO U. 10	ELL DRILLED BY:		069	TH OF WATER	IN WETT:	10.29	· · · · · · · · · · · · · · · · · · ·
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PRINCE TEST (circle):  DIAMETER OF PIPE:  SCREEN LENGTH:  SCREEN LENGTH:  EFFECTIVE SCREEN LENGTH="L":  IC WATER LEVEL (T.C.P.):  SILOG II LOGGING SEQUENCE  SILOG II LOGGING SEQUENCE  SEGMENT NUMBER OF INTERNAL SEGMENT DURATION (SEC.) (SEC.)  SEC.) (SEC.)  SEC.) 15 1 15 15  3 15 3 75 75  75 75  4 15 30 450  Fressure  Water Level  Stainless Steel Slag  10  Bantonik Seal  11  Well Screen  15  16	DIAMETER OF PIPE    Prise TEST (circle)   Doth   SCREEN LENGTH:				TIC TRANSDUC	ER WATER LE	/EL:	<u></u>
ARTION WELL SCREENED IN:  SCREEN LENGTH:  EFFECTIVE SCREEN LENGTH:  SILOG II LOGGING SECUENCE  SEGMENT NUMBER OF INTERVAL SEGMENT DURATION TIME (SEC.)  1 50 0 L 10 10  2 15 1 15 15 15  A 15 30 450 950  Frassure  Franchises Steel Slug  10  Seatonike Seed  11  Seatonike Seed  12  Well Screen  15  16	SCREEN LENGTH:  WATION WELL SCREENED IN:  SILOG II LOGGING SEQUENCE  SILOG II LOGGING SEQUENCE  SEGMENT NUMBER OF INTERVAL SEGMENT TIME (SEC.) (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)  SEGMENT NUMBER OF INTERVAL (SEC.) (SEC.)			_ DIAM			<del></del>	
AATION WELL SCREENED IN:  IC WATER LEVEL (T.C.P.):    Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Comparison   Com	WATION WELL SCREENED IN:  To Bar SILOG II LOGGING SEQUENCE  SEGMENT NUMBER OF INTERVAL SEGMENT TIME (SEC.) (SEC.) (SEC.)  Water Level  Stanless Steel Slag  Well Screen  Well Screen  To Water Level  Stanless Steel Slag  Well Screen  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)  PRESSURE TRANSDUCER PSt. (SEC.)							
SILOG   LOGGING SEQUENCE   Protective Cesing   SEGMENT   NUMBER OF   INTERVAL   SEGMENT   DURATION   TIME   SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (SEC.)   (S	SILOG II LOGGING SEQUENCE  Probetive Cesing SEGMENT NUMBER OF INTERVAL SEGMENT DURATION (SEC.)  1	LL/RISE TEST (circle)	BOTH	_ SCR	EEN LENGTH:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
SILOG II LOGGING SEQUENCE  Protective Cesing SEGMENT NUMBER OF INTERVAL OURATION (SEC.)  PROTECTIVE Cesing SEGMENT NUMBER OF READINGS (SEC.)  PROTECTIVE SEGMENT NUMBER OF READINGS (SEC.)  PROTECTIVE SEGMENT DURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  IMPRILITED SEC. (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERVAL OURATION (SEC.)  INTERV	SILOG II LOGGING SEQUENCE  Protective Casing SEGMENT NUMBER OF INTERVAL SEGMENT DURATION (SEC.)  1 50 0 1 10 10  2 15 1 15 15 15 15 15 15 15 15 15 15 15 1		<del></del>	_ EFFI	ECTIVE SCREE	N LENGTH" "L'	· <del></del>	-
Protective Casing   SEGMENT   NUMBER OF INTERVAL   SEGMENT   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CAS	SEGMENT NUMBER OF INTERVAL SEGMENT DURATION (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READINGS (SEC.)  READI	ATIC WATER LEVEL (T.C	.P.):	_				
Protective Casing   SEGMENT   NUMBER OF   INTERVAL   SEGMENT   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   CASING   C	SEGMENT NUMBER OF INTERVAL SEGMENT DURATION (SEC.)  2" PVC Casing SEGMENT NUMBER OF READINGS (SEC.)  NUMBER READINGS (SEC.)  1	<del></del>	T. 0.	····				
1   1   1   1   1   1   1   1   1   1	Pressure  Water Level  Stainless Steel Slug  Well Screen  Well Screen  Time  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SEC.)  SE	Data Logger						EI 480ED
1   50   0   10   10   10   10   10	1   50   0   10   10   10   10   15   15						DURATION	TIME
2   15   15   15   15   15   15   15	2	KAKANAKA	ALLY HARRANA	1	50	02	<del></del>	
# 1 50 0.2 10 10  # 2 15 1 15 15  # Water Level  Stainless Steel Slug  10  Bantonite Seal  11  Bentonite Seal  12  Well Screen  18	Pressure  Water Level  Stainless Steel Slug  Bentonite Seal  Silver Sand  Well Screen  In the sand pack length if attertable intersects sand pack, where "L"  PRESSURE TRANSDUCER PSI: 15			2	15	į		15
Pressure  Water Level  Water Level  Fransducer  Stainless Steel Slug  10  11  Bentonite Seal  12  Silica Sand  14  Well Screen  15  16	Pressure  Water Level  Water Level  Stainless Steel Slug  Bentanik Seel  Well Screen  IS  Well Screen  IS  PRESSURE TRANSDUCER PSI: 15  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TAINITESS STEEL SLUG I FACTLY  TO  TAINITESS STEEL SLUG I FACTLY  TO  TAINITESS STEEL SLUG I FACTLY  TO  TAINITESS STEEL SLUG I FACTLY  TO  TAINITESS STEEL SLUG I FACTLY  TO  TAINITESS STEEL SLUG I FACTLY  TO  TO  TO  TO  TO  TO  TO  TO  TO  T	; [] [		3	15		75	75
Pressure  Water Level  Water Level  Stainless Steel Slug  10  Bentonik Seel  Silved Seed  13  Well Screen  15  16	Pressure  Water Level  Water Level  Stainless Steel Slug  10  11  Bentanik Seal  12  Si/reg Sand  14  Well Screen  16  PRESSURE TRANSDUCER PSI:	!	<u></u>	4	15	30	450	450
Pressure  Water Level  Water Level  Stainless Steel Slug  10  Bentonik Seel  Silved Seed  13  Well Screen  15  16	Pressure  Water Level  Water Level  Stainless Steel Slug  10  11  Bentanik Seal  12  Si/reg Sand  14  Well Screen  16  PRESSURE TRANSDUCER PSI:	سيستنسلس		5		<u> </u>		<u>-</u> i
Pressure  Water Level  Fransducer  Stainless Steel Slug  10  11  Bentonite Seal  12  Silica Sand  14  Well Screen  15  18	Pressure  Water Level  Stainless Steel Slug  10  11  Bentanite Seal  12  Silved Sand  14  Well Screen  15  16  PRESSURE TRANSDUCER PSI:			<u> </u>		0.2		10
Fransducer  Stainless Steel Slug  10  11  Bentanik Seel  12  Silved Seed  13  Well Screen  15  16	Stain less Steel Slug 10  Stain less Steel Slug 10  Stain less Steel Slug 10  Stain less Steel Slug 10  Stain less Steel Slug 10  Stain less Steel Slug 10  Stain less Steel Slug 10  11  Stain less Steel Slug 10  11  Stain less Steel Slug 10  PRESSURE TRANSDUCER PSI: 15  Stain less than the sand pack length if steer table intersects sand pack, where "L"  STAIN LESS STEEL SLUG LENGTH: 44		▼ Make Lond		13	<del>1</del>		75
Stainless Steel Slug 10  Bestonite Seel 12  Silved Seed 13  Well Screen 15  18	Stainless Steel Slug 10  Bentonite Seal 12  Si/rea Sand 13  Well Screen 15  Ingth is less than the sand pack length if atter table intersects sand pack, where "L"  Stainless Steel Slug 10  11  11  PRESSURE TRANSDUCER PSL: 15  STAINLESS STEEL SLUG LENGTH: 14				13		<del></del>	
Bentanik Seel 12  Silver Send 13  Well Screen 15  16	Bentanik Seal    12     13     14     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16     16	I ansaueer	Stainless Steel Slug	10				
Silver Send   13   14   15   16   16   16   17   18   18   18   18   18   18   18	Mell Screen  13  14  15  16  Ingth is less than the sand pack length if ater table intersects sand pack, where "L"  Stank Ess STEEL SLIG ENGTH: 4							
Well Screen 15 16	Mell Screec 15  Ingth is less than the sand pack length if atter table intersects sand pack, where "L"  STAINLESS STEEL SLIGHENGTH: 4							
Weil Screen 15 16	well Screen 15  Ingth is less than the sand pack length if ster table intersects sand pack, where "L"  STAINLESS STEEL SLIGHT FACTURE IN THE STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLIGHT STAINLESS STEEL SLI	† 5	Silve Send					<del></del>
16	angth is less than the sand pack length if PRESSURE TRANSDUCER PSI: 15*  Start table intersects sand pack, where "L"  STAINLESS STEEL SLIGHT ENGINE 44*	4	El alum Carra H					· · · · · · · · · · · · · · · · · · ·
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Danohue commens	INFIELD HYD	RAULIC SLUG TI		CTIVITY	SHEET_	OF
PROJECT NO.: 200			LL NUMBER: GER ID NUMBE			
CLIENT: USET WELL DRILLED BY: DATE TEST PERFORMED: TIME TEST PERFORMED: TOP OF PIPE ELEVATION: CBSERVATION WELL PIEZO FALL/RISE TEST (circle) FORMATION WELL SCREEN STATIC WATER LEVEL (T.C.F.	12-14-90 13:59 METER (circle): Both ED IN:	INIT STA DIAM DIAM SCR	AL DEPTH OF V TH OF WATER I IAL TRANSDUCT TIC TRANSDUCT METER OF BORI METER OF PIPE MEEN LENGTH: ECTIVE SCREEN	ER WATER LEVER WATER LEVER WATER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LEVER LE	vel: <u>7.98</u>	· · · · · · · · · · · · · · · · · · ·
oate C	T-Bar		SILOG II	LOGGING SE	QUENCE	
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**L* length is less than the sar the water table intersects sand will equal distance between w bottom of sand pack.	t pack, where "L" ater table and	PRESSURE TR	WASDUCER PS TEEL SLUG LEN	l: <u>/.5</u> GTH: <u>4</u>		·
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SCIAP (1873	SLUG TI	EST			
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IENT: USEPA	TOT	AL DEPTH OF V	WELL:	3.49	
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ROE PIPE ELEVATION:	: DIA	METER OF BOR	EHOLE:		
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L/RISE TEST (circle)		REEN LENGTH:			
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pata T-Bar		SILOG II	LOGGING SEC	DUENCE	
agger Protective Cesia 2° PVC Casing	9 SEGMENT NUMBER	NUMBER OF READINGS	INTERVAL (SEC.)	SEGMENT DURATION (SEC.)	ELAPSED TIME (SEC.)
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SITE: HIMCO	<del></del>		GER ID NUMBE	_		<del></del>
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CLIENT: EPA			TAL DEPTH OF V	VELL: 18	. 55'	
WELL DRILLED BY:MAthe.	S		TH OF WATER			
DATE TEST PERFORMED: 12-	-1-90	INIT	TAL TRANSDUC	ER WATER LE	/EL:	<u>.                                      </u>
TIME TEST PERFORMED:		_ STA	TIC TRANSDUC	ER WATER LE	VEL: 7.9	8 '
TOP OF PIPE ELEVATION:		DW	METER OF BOR	EHOLE:		
BSERVATION WELL PIEZOMETER	(circle):	DIAI	METER OF PIPE	<u> Z "</u>		
FALL/RISE TEST (circle)Bo	<del>†</del>	_ SCF	REEN LENGTH:			
FORMATION WELL SCREENED IN:		EFF	ECTIVE SCREE	N LENGTH" "L	·	<del></del>
STATIC WATER LEVEL (T.C.P.):		_		•	•	
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	Water Level	8		<del></del>		<del></del>
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"L" length is less than the sand pack he water table intersects sand pack, vill equal distance between water tab nottom of sand pack.	wiere ""		RANSDUCER PS FEEL SLUG LEN		,	
NOTES:						
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EST PERFORMED BY: C Fevelo,	S. Spiewak E.	Shasey DATE	12-/	-90		
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LOGGER DOWNLOADED BY:C		-	<b>:</b>			

INFIELD HYDRAULIC CONDUCTIVITY SHEET \_\_ OF \_\_

Pressure Transducer Selection is less than the sand pack length if the water table intersects sand pack.  Well Screen  The water table intersects sand pack. where "L" will equal distance between water table and bottom of sand pack.  NOTES:	OF _/	OF
SITE: HIMCC  CUENT: EPA  WELL DRILLED BY: MATH & S  WELL DRILLED BY: MATH & S  DEPTH OF WATER IN WELL: 12, 50.  TOTAL DEPTH OF WATER IN WELL: 3, 45  INITIAL TRANSDUCER WATER LEVEL: 9, 0 Z  TIME TEST PERFORMED: 1530  STATIC TRANSDUCER WATER LEVEL: 9, 0 Z  DAMETER OF PIPE: 2, 11  SCREEN LENGTH: EFFECTIVE SCREEN LENGTH: 1;  STATIC WATER LEVEL (T.C.P.):  DATE  Longer  Probabline Casing  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  1 50 0, 2 0  2 15 1 15  3 15 2 30  INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  3 15 2 30  4 5  6 7  7 3 15 2 30  INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  1 50 0, 2 0  2 15 1 15  4 15  STANLESS STEEL SLUG LENGTH: 4'  The water table interasects sand pack, where 1'  Well Servere  The length is less than the sand pack, where 1'  Well Servere  The length is less than the sand pack, where 1'  Well Servere  The length is less than the sand pack, where 1'  STANLESS STEEL SLUG LENGTH: 4'  STANLESS STEEL SLUG LENGTH: 4'  STANLESS STEEL SLUG LENGTH: 4'  TOTAL DEPTH OF WATER IN WELL: 12, 50'  DATE  STATIC TRANSDUCER PSI: 15  TOTAL DEPTH OF WATER IN WELL: 12, 50'  DATE  STATIC TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL DEPTH OF WATER IN WELL: 12, 15  STANLESS STEEL SLUG LENGTH: 4'  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOTAL TRANSDUCER PSI: 15  TOT		
CLIENT: EPA  WELL DRILLED BY: MATH & S  DEPTH OF WATER IN WELL: 12, 50  TOTAL DEPTH OF WELL: 13, 50  DEPTH OF WATER IN WELL: 2, 45  INITIAL TRANSDUCER WATER LEVEL: 9, 0 2  TOP OF PIPE ELEVATION:  COBSERVATION/MELL/PIEZOMETER (circle):  STATIC WATER LEVEL (T.C.P.):  DATE  COSTANTION WELL SCREENED IN:  STATIC WATER LEVEL (T.C.P.):  DATE  LONG  PRESSURE  PRESSURE  Transducer  Well Depth of Water In Well: 2, 45  INITIAL TRANSDUCER WATER IN WELL: 9, 0 2  DIAMETER OF PIPE  Z 'SCREEN LENGTH: 2  SCREEN LENGTH: 1:  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  SEGMENT NUMBER OF INTERVAL SEGMENT OURATION (SEC.)  3		
WELL DRILLED BY: Math & S  DATE TEST PERFORMED: 12-1-90  TIME TEST PERFORMED: 1530  STATIC TRANSDUCER WATER LEVEL: 9.02  STATIC TRANSDUCER WATER LEVEL: 9.02  DIAMETER OF BIPE: 2"  SCREEN LENGTH: SCREENED IN: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SCREEN LENGTH: 1: SC		
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TECHNICAL MEMORANDUM NUMBER 13

DATE: February 17, 1991

TO: Vanessa Harris, Site Manager

CC: Roman Gau, Project Manager

Mike Crosser, TSQAM

FROM: Marcia A. Kuehl

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024 Himco Dump Site, Elkhart, Indiana

Waste Mass Gas Sampling

This technical memorandum presents the waste mass gas sampling method and the analytical results from three initial samples which were used to establish sample collection times and pump rates.

#### Introduction `

Characterization of the Himco Dump Site waste mass gas was necessary to select appropriate remedial alternatives and develop the risk assessment. Typical municipal landfill gas consists of methane, hydrogen sulfide, and selected volatile organics. Historical site groundwater data indicates the presence of acetone, trans-1,2-dichloroethene, chloroethane, chlorofluoromethane, and dichlorodifluoromethane in shallow groundwater. No historical waste mass gas or ambient air data exists for the site. Accordingly, samples were collected and analyzed for the EPA Target Compound List volatile organics and up to 10 tentatively identified volatile organic compounds.

Twelve cap soil sampling locations, as shown in Figure 1, were selected for waste mass gas collection. These locations were chosen based on the highest field VOC readings, as measured by the HNu, or where the highest methane or hydrogen sulfide ambient concentrations, as measured by the Lumidor Gasponder IV meter, were noted in the 0- to 18-inch soil sample headspace.

Two sampling events were conducted. On November 7, 1990, three samples were collected at location G-20 by Marcia Kuehl and Dorothea Downs (Ebasco) in order to establish pump rates and sample collection times. The collection time and pump rate must be sufficient to collect enough sample volume for analysis yet not saturate the Tenax® adsorbent. On November 13 and 14, 1990, the remaining locations were sampled by Marcia Kuehl, Tom Puchalski, and Dorothea Downs. One trip blank, one field blank, one field duplicate, two matrix spikes, and two matrix spike duplicates were also collected on November 13 and 14, 1990, for a total of 18 samples sent for analysis.

#### Methods

The following equipment and materials were used during the waste mass gas sampling:

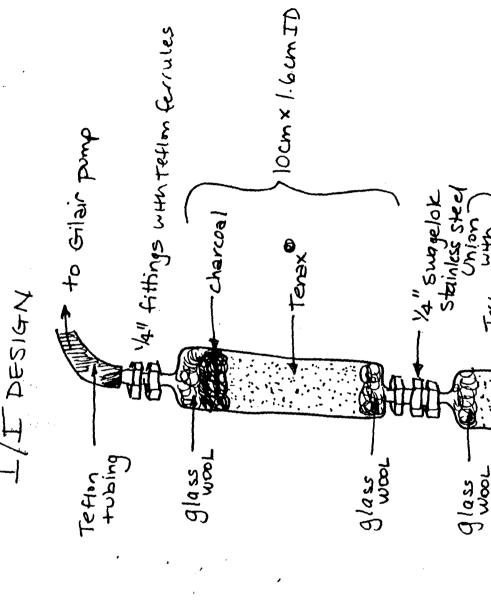
- 1. Lumidor Gasponder IV Model PGM-14 (for measurement of methane and hydrogen sulfide).
- 2. Hollow perforated nickel plated alloy steel soil probe, 10 feet maximum length x 5/8 inch OD.
- 3. KVA Macho portable soil gas probe system.
- 4. Gilian Gilair peristaltic sampling pump.
- 5. Digital soap bubble flow meter EZ Cal Sensidyne.
- 6. HNu photoionization detector.
- 7. Stop watch.
- 8. Teflon tubing.
- 9. Tenax/charcoal sorbent tubes (supplied by CLP SAS lab).
- 10. Tenax sorbent tubes (supplied by CLP SAS lab).
- 11. Culture tubes (supplied by CLP SAS lab).
- 12. Friction-top can with charcoal for packaging.
- 13. Freezer. .
- 14. Water, defonized and tap.
- 15. Isopropanol (A.C.S.).
  - 16. Five-gallon pail with cover to contain isopropanol rinses.
  - 17. Liquinox soap.
  - 18. Brushes.
  - 19. EPA Region V sample tags and SMO traffic report labels.
  - 20. Plastic bags.
  - 21. Camera and film.
  - 22. Polyester gloves.
  - 23. Generator (20 amp, 120 volt), gas powered.

The local weather station was called each morning prior to sample collection to get the current temperature, wind speed and direction, humidity, and barometric pressure. Sampling was done when winds were below 10 mph and no rain or snow was present. High winds disperse vapors emanating from the borehole, and moisture in the tenax and charcoal sorbents interfere with the chemical analysis. The cap soil sampling field team chose the gas sample locations based on the highest field measurement of methane, hydrogen sulfide, or volatile organics in the 0- to 18-inch soil sample headspace, or locations with the most significant odor and evidence of buried waste.

The pump and a dummy sorbent tube assembly was calibrated daily prior to sample collection with the EZ Cal Sensidyne digital soap bubble flow meter using seven readings. Multiple readings are recommended by the flow meter calibrator manufacturer due to the inherent variability of the bubbles generated. The mean value of readings was used as the actual pump rate because the pump rotameter reading scale was not readable to within 0.10 liters/minute.

The KVA Macho® System 13-pound air rotary hammer, powered by a gas powered generator, was used to drive the stainless steel probe into the ground. A 3-foot sampling interval was attempted at each location. Gas inlets were at

SAMPLING TRAIN HIMCO DUMP



1/4" fithigs with Tetton ferrolles

glass

Tetton tilling

lounx 1.6 cm ID

Tetter terroles

glass.

The total volumetric flow for each cartridge was calculated and recorded on the Soil Gas Survey Form using the following equation:

$$V_m = \frac{T \times Q_A}{1000}$$

where:

QA = Flow rate in ml/minute

Vm - Total volume sampled in liters at measured temperature and pressure

 $T = Sampling time = T_2 - T_1$ , minutes

 $T_2$  - Stop time

 $T_1$  - Start time

The total volume ( $V_S$ ) at standard conditions, 25°C and 760 mmHg, was then calculated from the following equation and included on the chain-of-custody form so the lab could report results in ng/l.

$$V_s - V_m \times P_A \times 298$$

where:

P<sub>A</sub> - Average barometric pressure, mmHg t<sub>A</sub> - Average ambient temperature, °C

#### Summary of Results

Samples as listed in Table TM\_-1 were collected. Field trial sample analytical results are in Attachment C and detected compounds are summarized in Table TM\_-2.

Compounds detected were indicative of aerosol can disposal (1,1,2-trichloro-, 1,2,2-trifluoroethane), solvent disposal (methylene chloride, acetone, benzene, toluene, 1,1,1-trichloroethane), and landfill gas (carbon disulfide) from waste decomposition. Disposal of aerosol cans and associated industrial solvents has been suspected at Himco Dump and noted by nearby residents.

#### Deviations

The following deviations from the Field Sampling Plan occurred, but were not judged by the Site QC officer and Site Manager as negatively impacting data quality:

1. Borehole equilibration was done for 15 minutes rather than the 5 minutes specified in the FSP. The time was extended after evaluation of the data

- collected on November 7, 1990, which indicated that the greatest concentration of 1,1,2-trichloro 1,2,2-trifluoroethane was measured in the sample collected after the borehole was open for 15 minutes.
- 2. The initial sampling rate specified in the FSP was 1 liter/min for 20 minutes. Based on conversations with other ARCS contractors familiar with use of the VOST sorbent tube assembly for gas sampling and the analytical laboratory, a rate of approximately 4 liters/minute was selected. Sampling times of 16.87 minutes, 12.18 minutes, and 5.00 minutes were used on November 7, 1990, during the field trial. Based on these results, a sample volume ( $V_S$ ) of approximately 2 liters was selected using a pump flow rate of approximately 4 liters/minute for 10 minutes, and the borehole was left open to equilibriate for 15 minutes after probe insertion. Remaining samples, HDTT04-HDTT07, HDTT10-HHFDTT16, were collected using these operating parameters.
- 3. The FSP indicated that two sampling locations were to be sampled during the field trial. Only one location was sampled as the weather was threatening, and rain was expected.
- 4. The Corporate Health and Safety Manager reviewed the sampling and documentation during the initial field trial.
- 5. A bottle blank, as specified by the FSP, was not collected. A field blank consisting of a pair of sorbent tubes uncapped and exposed to site ambient air for the sampling period (10 minutes) was collected based on advice from the CLP laboratory and other ARCS contractors.
- 6. Two sets of matrix spike and matrix spike duplicate sorbent tubes were collected and consisted of four sets of unexposed tubes. These samples were added as the SAS method specified this QC requirement at a frequency of 1 per 10 field samples.
- Refusal occurred during sampling due to the 3-foot sample interval could not be achieved for all samples, as indicated in Table TM\_\_\_\_-1.

A/R/HIMCO/AA5

TABLE TM\_\_-1

VOLATILE MASS GAS SAMPLES COLLECTED

Himco Dump Site

Elkhart, Indiana

Grid Point Location	Borehole equil. time (min.)	Sample Number	Sample Depth (ft.)	Mean Pump Flow Rate L/min.	Sample Time (min.)	Total Volumetric Flow (V <sub>S</sub> ) (liters)
G-20	5	HD-TT01	0.75	4.21	16.87	3.01
G-20	17	HD-TT02	0.75	4.21	12.18	2.17
G-20	30	HD-TT03	0.75	4.21	5.00	0.89
OFF-SITE	15	HD-TT04	3.0	4.17	10.00	1.84
R-12	15	HD-TT05	2.4	4.17	10.00	1.84
Q-8	15	HD-TT06	2.7	4.17	10.00	1.84
0-15	15	HD-TT07	3.0	4.17	10.00	1.84
FIELD BLANK	•	HD-FBTT08	0		10.00	• •
TRIP BLANK	• •	HD-TBTT09		• •		
L-18	15	HD-TT10	2.0	4.17	10.00	1.75
L-21	` 15	HD-TT11	2.6	4.17	10.00	1.75
I-22	. 15	HD-TT12	3.0	4.17.	10.00	1.75
D-24	` 15	HD-TT14	3.0	4.17	10.00	1.75
F-25	15	HD-TT15	3.0	4.17	10.00	1.75
K-14	15	HD-TT16	3.0	4.17	10.00	1.75
K-14	15	HD-FDTT16	3.0	4.17	10.00	1.75
Matrix Spike	. ••	HD-TTMS01	••	••		••
Matrix Spike		HD-TTMS02	• •	••		
Matrix Spike Duplicate	••	HD-TTMSD01	••		••	• •
Matrix Spike Duplicate		HD-TTMSD02	• •	••	••	••

A/R/HIMCO/AA5

TABLE TM\_\_\_-2

# WASTE MASS GAS FIELD TRIAL ANALYTICAL RESULTS Himco Dump Site Elkhart, Indiana

Detected Volatile Organic	HD-TT01	HD-TT02	HD-TT03
		<del></del>	
Methylene Chloride	2.66 B	7.83 B	14.6
Acetone Benzene	5.31	8.29	17.9
Benzene	0.66 J	1.84	2.25
Toluene	23.9	30.9	21.3
1,1,2-Trichloroethane-	19.9	138	225
1,2,2-Trifluoroethane			
Unknown Hydrocarbon (RT 11.26)	3.32	9.22	ND
Carbon Disulfide	ND	3.22	ND
1,1,1-Trichloroethane	ND	2.30	ND
Unknown Hydrocarbon (RT 16.22)	ND	3.69	ND

#### Legend:

B - Detected in unexposed lab blank tubes.

J - Estimated concentration, below detection limit.

ND - Not detected.

RT - Retention Time, in units.

A/R/HIMCO/AA5

#### ATTACHMENT A

VOST BLANK CHECK RESULTS

Client I.D. USEPA -VIAR

w.o. \* x0-10-293

Data I		<b>-</b>							Demonué			Unknown	
Date	Analyst	Tube No.s	Batch	Acetone	Benzene	Hexane	Perc	Toluene	Trionue	SITE		(1)	Can No.
10/24	1R.	14161 10 1555	301		1.3		4.0	0.8	11/0	L-18		<5 ng	1
		13242 TC 35		3.3	1.9	1.0	12.0	0.7	TT 12	I-22			1
	-   '	T14 TCX 4241		6.0	3.9	0.5	11.4	0.9	TT 09	TB			
		160 TC 4640		4.5	2.2	1.3	12.9	0.8	TO8	FB	164 24N		
		11-100 Tc47		5.3	3.0	1, \_	10.0	0.9.	1105	R-12.			
~		T2154 Tc4602	+	6.1	2.1	1.5	7.7	0,6	IT 04	ONILA			
10/26		T4721 TC4752	302		0.8				 				
	1	14488-Tc4741		1.4	1.9	1.3	4.2	0.7	1706	0.8			
		T4211 TC4754	l	7.3	2.3	4.0	8.2	0.9	TILL	1-51			
		T3407 TC 4744		1.0	1.3	1.4	4.5		1107	0-15			<b></b> 4;-
		T4717 TC4484		2.6,	1.3	1.60	3.0	0.5	4501		<u> </u>		2
		14613 164735			1.1	0.5	3.7	0.4	nspoi				1
		T4194 TU4141		1.1	0.9	0.8	0.8	0.5	45002				
		19121 Tu 4126		2.5	1.5	0.9			11/16	F-14	<u> </u>		
	!	1469816972			1.4	1.2		0,6	FOITILE	F-14			
		T4113 T64718		2,6	1,0	1.2		0.4					
-,7		14716 TC4648		6.8	2.2	0.60	9.7	0.5	1114	0-24			
10/28		T4715 TO 3148		8.8	3.3	0,6		0.7	MSUZ		1		
	!	T42 TC3182		6.0	1.9	1.1		0.5	TT 15	F-25			
		T4670-TL4538		5,1	1.4	2,4				<u> </u>			
4	ديه	T4723 [c.3619		7.6	1.5	0.8		0,6	1T 13	I-21		47	<b></b>

#38141884



### **VOST Blank Check Results**

ITAS Cincinnati

Client I.D. WEPA - VIAR

W.O. # 10-10-293

Date	Analyst	Tube No.s	Batch	Acetone	Benzene	Hexane	Perc	Toluene	674.170	Denome UL	Literat	Unknown (1)	Can No.
10/31	selmm	1 4629TC44(1)	305	٥. لو	1.0	1.3		0.4	TTOI	6.w	70.95	LSing	1
		T3845 162315		14	17	2.0	63	0.9	used to pumps	collibrate MALL	14/9 o	•	
)		12411 Bull		O. 7	13	17		0.8					
		T4131 TC438	:	10	13	13	1,5	() (0		6-20	23.352	4n	
4	j 	T23-22 TC-1475		0.8	15	3.フ	ን ል	0.5	1102	670	57.38	51.28	
1/1	5	TU463TL 3989	Ÿ		0.5	0.5	<u> </u>	11	Crtra			V	_\/
,		The second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of th		,									
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(1) based o'

tene response factor for the largest unknown peak in run. All f

are listed as NG per pair. Yuncorrected to STD (Vm)

ATTACHMENT B

SOIL GAS SURVEY FORMS



# SOIL GAS SURVEY FORM

CLIENT: <u>EFA ARCS</u> DATE: <u>III 7190</u> EPA SAS NO.: <u>798 E-1/E-</u> SITE: <u>Homeo</u> DONOHUE SPL NO.: <u>HD ITO I</u> PROJECT NO.: <u>200726</u> SAMPLING TEAM: <u>Marcia Kurch I, Dorothea Down S</u>
SAMPLING CONDITIONS  GASHUL GX SG (GGZ III)  TEMPERATURE: $40$ °F - $32 \times 5/9 = 4.4$ °C (GA)  BAROMETRIC PRESSURE (PA): $30.05$ mm Hg at $0.800$ (AN/PM)  RELATIVE HUMIDITY: $92$ %  WEATHER: $30.05$ mph from $30.05$ MPM  WEATHER: $30.05$ MPM  CH4: $30.05$ % LEL
SAMPLE GRID COORDINATES .: N E Grid point G-20 near SAMPLING INTERVAL: 18-24" Ar Fractank  SOIL CONDITIONS AT SURFACE: wet, mass growing on soil
PUMP MFG/MODEL/SN: Gilan EN 2961 (Grain)  CALIBRATOR MFG/MODEL/SN: E264/Sensiagne /25/222 4.218 4.208 4.208 4.184  INITIAL CALIBRATION (QA) TO  CALIBRATION VERIFICATION:  *IF > 10%, SAMPLE  TUBES SUSPECT, RESAMPLE  PUMP CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBRATION  CALIBR
PUMP MFG/MODEL/SN: Gilian EN 2961 (Grain)  CALIBRATOR MFG/MODEL/SN: E260/Sensigne /25/222 4.218 4.208 4.208 4.208 4.208 4.208  INITIAL CALIBRATION (QA) TO  CALIBRATION VERIFICATION:  *IF > 10%, SAMPLE  ROTAMETER READING 4.0 4/2/ATIME: 0900  ROTAMETER READING 4.0 4/2/ATIME: 1330

\*RECORD Vs IN LITERS ON SAS CHAIN OF CUSTODY REMARKS COLUMN.



# SOIL GAS SURVEY FORM

	THE HAME DONOHUE SPL NO.: 5798E-3/E-1  ROJECT NO.: 20026,  AMPLING TEAM: Maich Kiehl Dyothia Downs	
	SAMPLING CONDITIONS Set 11/7/90,  EMPERATURE: °F - 32 x 5/9 = °C (ta)	
•	ELATIVE HUMIDITY:% CH4:% LEL /IND: mph from /EATHER:	
	AMPLE GRID COORDINATES.:NE Same berehale as ITO    OIL CONDITIONS AT SURFACE:T	
		×Į
	PUMP CALIBRATION SEE 1117/40 1	
	UMP MFG/MODEL/SN:	
	LIMP MEG/MODEL/SN:	
•	UMP MFG/MODEL/SN:	
•	UMP MFG/MODEL/SN:	
•	UMP MFG/MODEL/SN:  ALIBRATOR MFG/MODEL/SN:  NITIAL CALIBRATION (QA) TO  ALIBRATION VERIFICATION:  ROTAMETER READING  TIME:  ROTAMETER READING  TIME:	
	UMP MFG/MODEL/SN:  ALIBRATOR MFG/MODEL/SN:  NITIAL CALIBRATION (QA) TO  ALIBRATION VERIFICATION:  F > 10%, SAMPLE  UBES SUSPECT, RESAMPLE  SAMPLE COLLECTION  SAMPLE COLLECTION  TOUCH S  HARCOAL TUBE NUMBER: TC 4475 E 3 CHARCOAL TENAX TUBE NUMBER: T 23 22 E 4  TOP TIME:  12:19:25  COLLECTION CONDITIONS:  TART TIME:  12:07: N  IME ELAPSED (T) 12:11 SCL MINUTES	
	UMP MFG/MODEL/SN:  ALIBRATOR MFG/MODEL/SN:  NITIAL CALIBRATION (QA) TO  ALIBRATION VERIFICATION:  F > 10%, SAMPLE  UBES SUSPECT, RESAMPLE  SAMPLE COLLECTION  HARCOAL TUBE NUMBER: TC 4475 E 3 CHARCOAL TENAX TUBE NUMBER: T 23 22 E - 4  TOP TIME:  12:19:25  COLLECTION CONDITIONS:  TART TIME:  12:07:19	

\*RECORD Vs IN LITERS ON SAS CHAIN OF CUSTODY REMARKS COLUMN.



-

# SOIL GAS SURVEY FORM

	CLIENT: EDA AYZUS DATE: 1117/90 EPA SAS NO.: 5798E-5/E-U  SITE: HIMGO DONOHUE SPL NO.: HDTT03  PROJECT NO.: 20026.
	SAMPLING TEAM: Maria Kuch! Durither Dinns
	SAMPLING CONDITIONS SUC 11/7/90 TTO 1
	TEMPERATURE:
	BAROMETRIC PRESSURE (PA): mm Hg at AM/PM  H2S:ppm
	RELATIVE HUMIDITY:% CH4:% LEL
	WIND: mph from
	WEATHER:
	SAMPLE GRID COORDINATES.: N E
	SAMPLING INTERVAL:ft
	SOIL CONDITIONS AT SURFACE:
	PUMP CALIBRATION Sei 11/7/90 TTO1
	`
	PUMP MFG/MODEL/SN:
	INITIAL CALIBRATION (QA) TO L/MIN AT TIME:
	CALIBRATION VERIFICATION: ROTAMETER READING TIME:
	*IF > 10%, SAMPLE ROTAMETER READING TIME:
	TUBES SUSPECT, RESAMPLE #OTAMETER READING TIME:
	TUBES SUSPECT, RESAMPLE % DIFFERENCE SAMPLE COLLECTION
E-5	TUBES SUSPECT, RESAMPLE % DIFFERENCE
E-5	TUBES SUSPECT, RESAMPLE % DIFFERENCE
E-5	TUBES SUSPECT, RESAMPLE % DIFFERENCE  SAMPLE COLLECTION  TEVAX + CHARCOAL TUBE NUMBER: TC 433 CHARCOAL TENAX TUBE NUMBER: T 4131  STOP TIME: 12:23:23  COLLECTION CONDITIONS: S22 11/7/90 Tro 1  START TIME: 12:23:23
E-5	TUBES SUSPECT, RESAMPLE % DIFFERENCE
E-5	SAMPLE COLLECTION  TENAX + CHARCOAL TUBE NUMBER: TC 433 STOP TIME: 12:23:23 START TIME: 12:23:23 TIME ELAPSED (T) 5:00 MINUTES  SAMPLE COLLECTION COLLECTION CONDITIONS: 522 11/7/90 TTO 1
E-5	TUBES SUSPECT, RESAMPLE % DIFFERENCE  SAMPLE COLLECTION  TEVAX + CHARCOAL TUBE NUMBER: TC 433 CHARCOAL TENAX TUBE NUMBER: T 4131  STOP TIME: 12:23:23 COLLECTION CONDITIONS: 522 11/7/40 T10 1  START TIME: 12:23:23



## SOIL GAS SURVEY FORM

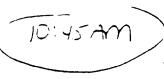


	CLIENT: <u>EPA ARCS</u> DATE: 11/13/90 EPA SAS NO.: 5798E E
	SITE: Himea DONOHUE SPL NO .: HD TC4
	PROJECT NO .: 20026 UPWIND OFFSITE
	SAMPLING TEAM: M. KLIEN / D. Downs / T. P. Ichalsky
	SAMPLING CONDITIONS
	TEMPERATURE: 25 °F - 32 x 5/9 = °C (ta) HNu: 0 ppm
	BAROMETRIC PRESSURE (PA): 30.23 mm Hg at 27/5 AMPM H2S: 0 ppm
,	RELATIVE HUM:DITY: 92 % LEL
	WIND: mph from met
	WEATHER: SYNOY
	SAMPLE GRID COORDINATES.: 50' N 61 5-10 EUR
	SOIL CONDITIONS AT SURFACE: fruity, leives moist (in woods)
	soil conditions at surface: fruity, leives moist (in woods)
	PUMP CALIBRATION COLUMN: 4.211 4.228  PUMP CALIBRATION COLUMN: 4.218 4.228  PUMP MFG/MODEL/SN: 6-113 / Gilair / 3146 (Umin) 4.224 4.15  CALIBRATOR MFG/MODEL/SN: F2 CAL Sensidy ne 1251222 4.19
•	PUMP MFG/MODEL/SN: Gilia/Gilair /2146 (In woods)  PUMP CALIBRATION Cally: 4.211 4.228  PUMP MFG/MODEL/SN: Gilia/Gilair /2146 (Um/n) 4.224 4.15
	PUMP CALIBRATION COLUMN: 4.211 4.328  PUMP MFG/MODEL/SN: C-1/13 / G-1/01 / 3196 (4min) 4.214 4.15  CALIBRATOR MFG/MODEL/SN: E2 CAL Sensidyne /251222 4.15  INITIAL CALIBRATION (QA) TO X=4.17 (n=7) L/MIN AT TIME: 0530  CALIBRATION VERIFICATION: ROTAMETER READING 44/min TIME: 0915  *IF > 10%, SAMPLE ROTAMETER READING 44/min TIME: 0915
•	PUMP MFG/MODEL/SN: Gilar / 2146  PUMP MFG/MODEL/SN: Gilar / 2146  CALIBRATION MFG/MODEL/SN: EZCAL Sensidy ne / 25/222  INITIAL CALIBRATION (QA) TO X: 4.17 (n=7)  CALIBRATION VERIFICATION: ROTAMETER READING 4/2/min TIME: 0350  CALIBRATION VERIFICATION: ROTAMETER READING 4/2/min TIME: 0350
	PUMP CALIBRATION  PUMP CALIBRATION  PUMP MFG/MODEL/SN: Gilar / 3146  CALIBRATOR MFG/MODEL/SN: F2CAL Sensidyne /251222  INITIAL CALIBRATION (QA) TO X: 4.17 (n=7)  CALIBRATION VERIFICATION:  ROTAMETER READING 4/min TIME: 0530  *IF > 10%, SAMPLE  TUBES SUSPECT, RESAMPLE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFFERENCE  *O DIFF
	PUMP CALIBRATION CALIBRATION 4.211 4.228  PUMP MFG/MODEL/SN: Gilar 2196 (4min) 4.218  CALIBRATOR MFG/MODEL/SN: EZCAL Sensidy ne /251222  INITIAL CALIBRATION (OA) TO X: 4.17 (n=7) L/MIN AT TIME: 0530  CALIBRATION VERIFICATION: ROTAMETER READING 4L/min TIME: 0955  "IF > 10%, SAMPLE ROTAMETER READING 4L/min TIME: 0915  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0 •

#### TOTAL VOLUMETRIC FLOW CALCULATION

 $Vm = T \times QA = 10.00 \times 4.17 = 41.7 \text{ LITERS (Vm)}$   $Vs = Vm \times PA \times 298 = 1.34 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000 \times 1000$ 





CLIENT: EPA ARCS	DATE: 11/13/40 EP	4 SAS NO.: 5793 E	
SITE: Hymico	. DC	NOHUE SPL NO .: TC 5 ET, CT	
PROJECT NO .: 20026	• ,	E-14, E-	
SAMPLING TEAM: M KUEN/	/ D Downs / Tom Pu	chalski	
	SAMPLING CONDITIONS		
TEMPERATURE: 25 °F	- 32 x 5/9 = °C (ta)	HNu: Cppm	
BAROMETRIC PRESSURE (PA): 30.	23 mm Hg at 1715 AMPPM	H2S:ppm	
RELATIVE HUMIDITY: 92	%	CH4: <u>C)</u> % LEL	
WIND: mph from _		<b>•</b>	
WEATHER: SUDAY			
<u> </u>		12	
SAMPLE GRID COORDINATES.: N E R-12			
SAMPLING INTERVAL: 2'5'			
SOIL CONDITIONS AT SURFACE:	VIAHE CAJOY, SOUR	H25 odor ambienT	
Oversity of the Children Colors	z'Cai Sensidyne /251	ME: 0530 4m.: TIME: 10:30 4m.: TIME: 11:05	
CALIBRATOR MFG/MODEL/SN: EINITIAL CALIBRATION (QA) TO CALIBRATION VERIFICATION:  "IF > 10%, SAMPLE	2 Cal Sensidyne /251 = 4.17 (n=7) LMIN ATT ROTAMETER READING 4.0 ROTAMETER READING 4.0	222 ME: 0530 4m: TIME: 10:30 4m: TIME: 11:05	
CALIBRATOR MFG/MODEL/SN: E INITIAL CALIBRATION (QA) TO X CALIBRATION VERIFICATION:  "IF > 10%, SAMPLE TUBES SUSPECT, RESAMPLE  TOWA X & CHARCOAL TUBE NUMBER: IC STOP TIME: Use START TIME: ISSUE START TIME:	2 Cal Sensidyne /251 = 4.17 (n=7) LIMIN ATT ROTAMETER READING 4.0 ROTAMETER READING 4.0 % DIFFERENCE 0	UBE NUMBER: TTIOO	
CALIBRATOR MFG/MODEL/SN: E INITIAL CALIBRATION (QA) TO X CALIBRATION VERIFICATION:  "IF > 10%, SAMPLE TUBES SUSPECT, RESAMPLE  TOWA X & CHARCOAL TUBE NUMBER: IC STOP TIME: Use START TIME: ISSUE START TIME:	2 CAI Sensidyne /251 = 4.17 (n=7) LIMIN ATT  ROTAMETER READING 4.0  ROTAMETER READING 4.0  **DIFFERENCE 0  SAMPLE COLLECTION  GHARCOALTENAX TO  COLLECTION CONDITION  VICTUM CIT	UBE NUMBER: TIOO	
CALIBRATOR MFG/MODEL/SN: EINITIAL CALIBRATION (QA) TO X CALIBRATION VERIFICATION:  "IF > 10%, SAMPLE TUBES SUSPECT, RESAMPLE  TENA X & CHARCOAL TUBE NUMBER: IC STOP TIME: START TIME: TIME ELAPSED (T) 10.00.00	2 CAI Sensidyne /251 = 4.17 (n=7) LIMIN ATT  ROTAMETER READING 4.0  ROTAMETER READING 4.0  **DIFFERENCE 0  SAMPLE COLLECTION  GHARCOALTENAX TO  COLLECTION CONDITION  VICTUM CIT	TUBE NUMBER: TTOO  TIONS:  THE TIME: 11:05  TOURS:  THE ATTER  TO BE NUMBER: TTOO  TIONS:  THE ATTER  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE  TO BE SUBSTITUTE	

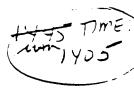




	CLIENT: EPA ARCS DATE: 11/13/40 EPA SAS NO.: 5748E EHR ATOB DONOHUE SPL NO.: HDTTO6  PROJECT NO.: 20026  SAMPLING TEAM: M. Kuefl / O. Down / T. Puchaloki
	SAMPLING CONDITIONS
	TEMPERATURE:
	BAROMETRIC PRESSURE (PA): 30.23 mm Hg at 0715 AM/PM H2S: 0 ppm
<b>\</b>	RELATIVE HUMIDITY: 92 % LEL
	WIND: mph from
	WEATHER: SYNDY
	SAMPLE GRID COORDINATES.:NE 98
	SAMPLING INTERVAL: 2'3" T
	SOIL CONDITIONS AT SURFACE:
	PUMP CALIBRATION See also 1104 for isl
	PUMP MFG/MODELISN: Gilian / Gilair /2196 readings
	PUMP MFG/MODELISN:
•	PUMP MFG/MODEUSN:
_	PUMP MFG/MODEUSN:
_	PUMP MFG/MODEUSN:
•	PUMP MFG/MODEUSN:
•	PUMP MFG/MODEL/SN: Glar /2196  CALIBRATOR MFG/MODEL/SN: E2CA / Sensidync. / 25/222  INITIAL CALIBRATION (QA) TO X=Y.17 (n=7) L/MIN AT TIME: 0530  CALIBRATION VERIFICATION: ROTAMETER READING 4.3 TIME: 11.72  TIF > 10%, SAMPLE ROTAMETER READING 4.3 TIME: 11.05  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0  SAMPLE COLLECTION  TOWLOW IN ACCOUNTY TO THE SAMPLE SAMPLE SAMPLE SAMPLE COLLECTION
<b>►</b> -11	PUMP MFG/MODEUSN: GILLAN GILLAN (2196)  CALIBRATOR MFG/MODEUSN: EZCU / Sensidyne, / 25/222  INITIAL CALIBRATION (QA) TO X=Y.17 (n=7) L/MIN AT TIME: 0530  CALIBRATION VERIFICATION: ROTAMETER READING 4.5 TIME: 11:32  TIME: 11:32  TOWAX + CHARCOAL TUBE NUMBER: TUBE NUMBER: TYV88
E-11	PUMP MFG/MODEUSN: SILON GIOIN /2196  CALIBRATOR MFG/MODEUSN: E2 CAL / Sensidyng, / 251222  INITIAL CALIBRATION (QA) TO X=Y.17 (n=7) L/MIN AT TIME: 0530  CALIBRATION VERIFICATION: ROTAMETER READING 4.0 TIME: 11.72  TIF > 10%, SAMPLE ROTAMETER READING 4.0 TIME: 11.72  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0  SAMPLE COLLECTION  TOWAX + CHARCOAL TUBE NUMBER: TC 4741 CHARCOAL/TENAX TUBE NUMBER: T448  STOP TIME: 18.00 COLLECTION CONDITIONS:
E-11	PUMP MFG/MODEL/SN: GILIAN GILOIT /2196  CALIBRATOR MFG/MODEL/SN: EZCAJ / Sensidyne, / 251222  INITIAL CALIBRATION (OA) TO X=Y.17 (n=7) L/MIN AT TIME: US30  CALIBRATION VERIFICATION: ROTAMETER READING 4.5 TIME: 11.32  TIF > 10%, SAMPLE ROTAMETER READING 4.5 TIME: 11.32  TOWN TIME: 11.32  SAMPLE COLLECTION  TEN 4X + CHARCOAL TUBE NUMBER: TC 4741  STOP TIME: 18.00  START TIME: 11.50  COLLECTION CONDITIONS: START TIME: 11.50
E-11	PUMP MFG/MODEUSN: SILON GIOIN /2196  CALIBRATOR MFG/MODEUSN: E2 CAL / Sensidyng, / 251222  INITIAL CALIBRATION (QA) TO X=Y.17 (n=7) L/MIN AT TIME: 0530  CALIBRATION VERIFICATION: ROTAMETER READING 4.0 TIME: 11.72  TIF > 10%, SAMPLE ROTAMETER READING 4.0 TIME: 11.72  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0  SAMPLE COLLECTION  TOWAX + CHARCOAL TUBE NUMBER: TC 4741 CHARCOAL/TENAX TUBE NUMBER: T448  STOP TIME: 18.00 COLLECTION CONDITIONS:
E-11	PUMP MFG/MODEL/SN: GILIAN GILOIT /2196  CALIBRATOR MFG/MODEL/SN: EZCAJ / Sensidyne, / 251222  INITIAL CALIBRATION (OA) TO X=Y.17 (n=7) L/MIN AT TIME: US30  CALIBRATION VERIFICATION: ROTAMETER READING 4.5 TIME: 11.32  TIF > 10%, SAMPLE ROTAMETER READING 4.5 TIME: 11.32  TOWN TIME: 11.32  SAMPLE COLLECTION  TEN 4X + CHARCOAL TUBE NUMBER: TC 4741  STOP TIME: 18.00  START TIME: 11.50  COLLECTION CONDITIONS: START TIME: 11.50

 $V_S = V_{m} \times PA \times 298 = \frac{1.34}{760} = LITERS (Vs)^*$ 





	CLIENT: <u>EFA ARCS</u> DATE: <u>II/13/90</u> EPA SAS NO.: <u>5798E E 13</u> S SITE: <u>HMID</u> DONOHUE SPL NO.: <u>HD IT 07</u> PROJECT NO.: <u>20026</u> SAMPLING TEAM: <u>M. Kuehl</u> / D. Downs/T. Pychalski
	SAMPLING CONDITIONS  TEMPERATURE: 40 °F - 32 x 5/9 = °C (tA) HNu: 0 ppm  BAROMETRIC PRESSURE (PA): 30.23 mm Hg at 4777 AMPM  RELATIVE HUMIDITY: % CH4: 0 % LEL  WIND: 0 mph from 0  WEATHER: SUNYY
	SAMPLE GRID COORDINATES.: N E 0-15  SAMPLING INTERVAL: 3.0 R  SOIL CONDITIONS AT SURFACE: H15 0 dsr - Intermittent ambient moist, moss  PUMP CALIBRATION  PUMP MFG/MODELSN: Gilian / Elgin / 2196  CALIBRATOR MFG/MODELSN: EZ (a) / Sensidyne / 251222
	INITIAL CALIBRATION (QA) TO $\frac{\sqrt{2} - 4.17 (n = 7)}{\sqrt{2}}$ LMIN AT TIME: $\frac{0.530}{\sqrt{2}}$ CALIBRATION VERIFICATION: ROTAMETER READING $\frac{4.0}{\sqrt{2}}$ TIME: $\frac{13.40}{\sqrt{2}}$
13	INITIAL CALIBRATION (QA) TO $\frac{\sqrt{3} = 4.17 (n = 7)}{\sqrt{3}}$ Lymin at time: 0.530

LITERS (Vm)





FR. CLIENT: EDA ACCS DATE: 11/13/90 EPA SAS NO.: 57986/ E-20 21 mmo DONOHUE SPL NO .: HOTTOS SITE: PROJECT NO .: \_ 2002.6 Field Blank SAMPLING TEAM: MKIEHILD. Downs /T. Puchalski SAMPLING CONDITIONS TEMPERATURE: 49 °F - 32 x 5/9 = \_\_\_\_ °C (ta) HNu: \_\_ BAROMETRIC PRESSURE (PA): 30.43 mm Hg at 1215 AMPM RELATIVE HUMIDITY: \_\_\_\_\_\_% WIND: \_\_\_\_\_ moh from \_\_\_\_ SAMPLE GRID COORDINATES .: \_\_\_\_\_ N \_\_\_\_ E taken at TTO 7 SAMPLING INTERVAL: 0 n ambient air only SOIL CONDITIONS AT SURFACE: NA pump not used PUMP CALIBRATION PUMP MFG/MODED'SN: CALIBRATOR MFG/MODEL/SN: INITIAL CALIBRATION (QA) TO TMIN-AT IME: \_ ROTAMETER READING \_\_\_\_\_ TIME: CALIBRATION VERIFICATION: ROTAMETER READING \_\_\_\_\_ TIME: . "IF > 10%, SAMPLE TUBES SUSPECT. RESAMPLE % DIFFERENCE SAMPLE COLLECTION TENAX & E-20 CHARCOAL TUBE NUMBER: TC 46480 COLLECTION CONDITIONS: -STOP TIME: opened and caps for 10 minutes START TIME: 10.00 TIME ELAPSED (T) \_ **MINUTES** TOTAL VOLUMETRIC FLOW CALCULATION not applicable LITERS (Vm) Vm = T x QA =\_\_ \_ LITERS (VS) Vs = Vm x PA x \_\_\_.298 ~



£.22



CLIENT: EDA ARLS DATE: 11/13/90 EPA SAS NO.: 5798 E 22
SITE: Throw DONOHUE SPL NO .: HD/TT09
PROJECT NO .: 20026 TRIP BLANIC
SAMPLING TEAM: M KUENID. Downs TT. Puchalski
SAMPLING CONDITIONS
TEMPERATURE: 48
BAROMETRIC PRESSURE (PA): 30.23 mm Hg at 12/5 AMEN H2S: ppm
RELATIVE HUMIDITY: 97 % LEL
WIND: mph from
WEATHER: SUNNY
SAMPLE GRID COORDINATES .: N E not applicable
SAMPLING INTERVAL:
SOIL CONDITIONS AT SURFACE:
PUMP CALIBRATION
PUMP MFG/MODELISM: not applicable
INITIAL CALIBRATION (QA) TO
INITIAL CALIBRATION (QA) TO
*IF > 10%, SAMPLE ROTAMETER READINGTIME:
TUBES SUSPECT, RESAMPLE % DIFFERENCE
SAMPLE COLLECTION
CHARCOAL TUBE NUMBER: TCX4241 CHARCOAL TENAX TUBE NUMBER: T14
STOP TIME: COLLECTION CONDITIONS: UNDESNED
START TIME: ACCUMPANIED (AN 1 TUBE WITEN
TIME ELAPSED (T) NOT APPLICALE MINUTES SHOPED FROM LAB
TOTAL VOLUMETRIC FLOW CALCULATION
Vm = T × OA =
Vm = T × OA =
Vm = T x QA = x = UTERS (Vm) to collisoled &





	·
	CLIENT: CPA MCS DATE: 11 3 4 = EPA SAS NO.: 5798E EZY 25  SITE: HMW  DONOHUE SPL NO.: HD TT - 10
	SAMPLING TEAM: M Kuehl/D. Downs/TPuchalski
J	SAMPLING CONDITIONS  TEMPERATURE: \$\frac{1}{2} \subseteq \cdots - 32 \times 5/9 = \cdots C (ta)
	SAMPLE GRID COORDINATES.: N E L-13
	SAMPLING INTERVAL: 2.00 t
	SOIL CONDITIONS AT SURFACE: Sandy, VISIBLE COSDY
•	PUMP CALIBRATION  PUMP MFG/MODEL/SN: Gilan /Gilair /2196  CALIBRATOR MFG/MODEL/SN: ECCAI /Sensidyhe /251222  INITIAL CALIBRATION (QA) TO X=4.17 (n=7) UMIN AT TIME: 0530  CALIBRATION VERIFICATION: ROTAMETER READING 4.0 TIME: 1505  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0.
1	SAMPLE COLLECTION  E-25  CHARCOAL TUBE NUMBER: IC155  STOP TIME:  START TIME:  STOPWOOD MINUTES  SAMPLE COLLECTION  CHARGOAL/TENAX TUBE NUMBER: IY/6/  COLLECTION CONDITIONS: NO ENWIRL  CONSTITUTE  CONSTITUTE  TIME ELAPSED (T) 10:00.00 MINUTES
	TOTAL VOLUMETRIC FLOW CALCULATION
	Vm = T x QA = 4+7 00 x 4,7 = 417 LITERS (Vm)





CLIENT: EPA ARCS DATE: 11/3/90 EPA SAS NO.: 37935 E-Z  SITE: HMW DONOHUE SPL NO.: HDTI-11  PROJECT NO.: 20024  SAMPLING TEAM: M KWEN/D Downs/ Truchalski
SAMPLING CONDITIONS  TEMPERATURE: 48
SAMPLE GRID COORDINATES.: N E L-21  SAMPLING INTERVAL: Z' 7" It refusee  SOIL CONDITIONS AT SURFACE: Sündy . dry
PUMP MFG/MODEL/SN: Gilar / 2/96  CALIBRATOR MFG/MODEL/SN: ELCAL SENSIGENCE   25/333  INITIAL CALIBRATION (QA) TO X=4/17 (n=7) L/MIN AT TIME: U530  CALIBRATION VERIFICATION: ROTAMETER READING A. Jacum TIME: 15/0  *IF > 10%, SAMPLE ROTAMETER READING 4. Jacum TIME: 15/32  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0.
PUMP MFG/MODEL/SN: Gilar / 2/96  CALIBRATOR MFG/MODEL/SN: ELCAL/SCASIAGRA / 25/323  INITIAL CALIBRATION (QA) TO X=4/17 (n=7) L/MIN AT TIME: U530  CALIBRATION VERIFICATION: ROTAMETER READING 4. Sector TIME: 15/0  *IF > 10%, SAMPLE ROTAMETER READING 4. Sector TIME: 1532  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output  *Output
PUMP MFG/MODEL/SN: Gilar / Gilan / 2/96  CALIBRATOR MFG/MODEL/SN: ELCAL/SCAGARL / 25/3-2-3  INITIAL CALIBRATION (OA) TO X-4/17 (n>7) L/MIN AT TIME: U530  CALIBRATION VERIFICATION: ROTAMETER READING A. SELLEN TIME: 15/0  *IF > 10%, SAMPLE ROTAMETER READING 4. SALLE TIME: 15/3-2  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0.

Vs = Vm x PA x 298 = 1.75 LITERS (Vs)\*





	CLIENT: <u>EPA ARCS</u> DATE: <u>II/13/90</u> EPA SAS NO.: <u>5743E - 23.</u> 1  SITE: <u>Hmcs</u> PROJECT NO.: <u>36326</u>
	SAMPLING TEAM: IM KUCHI/D. Downs/T. Puchalski
	SAMPLING CONDITIONS  TEMPERATURE: 48 °F - 32 x 5/9 = °C (tA) HNu: ppm  BAROMETRIC PRESSURE (PA): 30.23 mm Hg at/21 AMPM H2S: ppm  RELATIVE HUMIDITY: 92 % CH4: % LEL  WIND: mph from WEATHER: SUN SUTING
	SAMPLE GRID COORDINATES.:NETZ2  SAMPLING INTERVAL:3.56ft
	SOIL CONDITIONS AT SURFACE: Minoré-Sond near asphalt piles
_	PUMP CALIBRATION  PUMP MFG/MODEL/SN: Giliam / Gilair / 351333 2196  CALIBRATOR MFG/MODEL/SN: \( \text{S2 Cal} \) \( \text{Sensidyne} \) \( \text{251333} \)  INITIAL CALIBRATION (QA) TO \( \text{X=Y.17} \) \( \text{n=7} \) \( \text{UMIN AT TIME: } \( \text{0530} \)  CALIBRATION VERIFICATION: ROTAMETER READING \( \frac{4.0}{2.0} \) \( \text{TIME: } \( \text{1545} \)  *IF > 10%, SAMPLE ROTAMETER READING \( \frac{4.0}{2.0} \) \( \text{TIME: } \( \text{1620} \)  TUBES SUSPECT, RESAMPLE % DIFFERENCE \( \text{0} \).
	OMELS COLUSCION
E-28	SAMPLE COLLECTION  F-21 Jun  CHARCOAL TUBE NUMBER: T3262  STOP TIME: Used COLLECTION CONDITIONS:  START TIME: STOPWOTCH INTENTIONS  TIME ELAPSED (T) 10.00 MINUTES  SAMPLE COLLECTION  COLLECTION CONDITIONS:  INTENTION CONDITIONS:  INTENTION CONDITIONS:  VILLED TO TOWN OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF
	TOTAL VOLUMETRIC FLOW CALCULATION

 $Vm = T \times QA = 10.00 \times 4.17 = 41.7 \text{ LITERS (Vm)}$   $Vs = Vm \times PA \times 298 = 1.75 \text{ LITERS (Vs)}^{\circ}$  $Vs = Vm \times PA \times \frac{298}{760} \times \frac{298}{273 + tA}$ 





	CLIENT: EPA ARCS DATE: 11 2/90 EPA SAS NO.: 3148E 2-30 1
	SITE: DONOHUE SPL NO.: HDTT-13
Į	PROJECT NO.: 20326
;	SAMPLING TEAM: M Kuche/D Downs / 1 Puchalsky
	SAMPLING CONDITIONS
-	TEMPERATURE: 43 °F - 32 x 5/9 = °C (ta) HNu: ppm
1	BAROMETRIC PRESSURE (PA): 30 23 mm Hg at 1215 AMPM H2S: 0 ppm
	RELATIVE HUMIDITY: 92 % LEL
	WIND: mph from
1	WEATHER: COOL AUSK
;	SAMPLE GRID COORDINATES.:NE 1-21
;	SAMPLING INTERVAL: 3.00 ft
;	SOIL CONDITIONS AT SURFACE: mounded sand-high point in bein
į	
	PUMP CALIBRATION
	PUMP MFG/MODELISN: Grian /Gilair / 2196
	CALIBRATOR MFG/MODELISN: Ezcal Sensidyne /251222
	INITIAL CALIBRATION (QA) TO X=Y,17 (n=7) L/MIN AT TIME: 0530
1	CALIBRATION VERIFICATION: ROTAMETER READING 4.0 TIME: 1645
	*IF > 10%, SAMPLE ROTAMETER READING TIME: TIME:
	TUBES SUSPECT, RESAMPLE % DIFFERENCE
	SAMPLE COLLECTION
_	CHARCOAL TUBE NUMBER: 163419 CHARCOAL TENAX TUBE NUMBER: 74723
•	
	STOP TIME: COLLECTION CONDITIONS: Intermittet
į	STOP TIME: COLLECTION CONDITIONS: Intermite to
;	STOP TIME: Usefowatch COLLECTION CONDITIONS: Intermite to START TIME: Volume TIME ELAPSED (T) 10 01.00 MINUTES CLEATED - MOTER Upon Sample train
;	START TIME: COLLECTION CONDITIONS: 10 to mile to Suction

#### TOTAL VOLUMETRIC FLOW CALCULATION

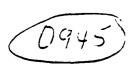
 $Vm = T \times QA = 1000 \times 4.17 = 41.7 \text{ LITERS (Vm)}$   $Vs = Vm \times PA \times 298 = 1.75 \text{ LITERS (Vs)}^{\circ}$ 





	CLIENT: <u>EPA ARUS</u> DATE: <u>11/11/40</u> EPA SAS NO.: <u>5743E E-36</u> 5.  SITE: <u>Hmuo</u> PROJECT NO.: <u>20026</u> SAMPLING TEAM: <u>M. Kulent</u> / D. Downs / T. Puchalsky
	SAMPLING CONDITIONS  TEMPERATURE: $35 \text{ °F} - 32 \times 5/9 = 1.67 \text{ °C (ta)}$ HNu: $0 \text{ ppm}$
,	BAROMETRIC PRESSURE (PA): 30.20 mm Hg at 0300 AMPM  RELATIVE HUMIDITY: 81 %  WIND: 5-10 mph from 5 €  WEATHER: SURVE MILE
	SAMPLE GRID COORDINATES.: N E D-24  SAMPLING INTERVAL: 3 0 R  SOIL CONDITIONS AT SURFACE: Sandy V. 3164 Cassy
•	PUMP CALIBRATION PUMP (a) Yearlings 4.17 4.17 4.17 4.22  PUMP MFG/MODEL/SN: Gilian / 2196 4.23 4.08  CALIBRATOR MFG/MODEL/SN: Elul / Sensidyne / 25/22  INITIAL CALIBRATION (QA) TO X= 4.17
2	SAMPLE COLLECTION  TENAX + CHARCOAL TUBE NUMBER: TCHON  STOP TIME: START TIME:  TIME ELAPSED (T) 10.00 MINUTES  SAMPLE COLLECTION  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  COLLECTION CONDITIONS:  THE GLAPSED (T) 10.00 MINUTES  TIME SAMPLE COLLECTION  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  COLLECTION CONDITIONS:  TIME ELAPSED (T) 10.00  MINUTES  TIME SAMPLE COLLECTION  THE CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TUBE NUMBER: TY716  CHARCOAL TU
	TOTAL VOLUMETRIC FLOW CALCULATION  Vm = T x QA = 10.00 x 4.17 = 41.7 LITERS (Vm)





CLIENT: <u>EPA 4265</u> DATE: <u>11/14/40</u> SITE: Homeo	EPA SAS NO.: 5743 E = 3  DONOHUE SPL NO.: HD TT -15
PROJECT NO.: 20026	Puchalski
SAMPLING CONDITIONS	
TEMPERATURE: $\frac{35}{5}$ °F - 32 x 5/9 = $\frac{1.67}{0.000}$ °C (M)	HNu:ppm
BAROMETRIC PRESSURE (PA): 30. 20 mm Hg at 0300 AMPH	
RELATIVE HUMIDITY:	CH4: % LEL
WIND: $\underline{5-10}$ mph from $\underline{5E}$	•
WEATHER: SUNNY mild	· · · · · · · · · · · · · · · · · · ·
SAMPLE GRID COORDINATES.:NE SAMPLING INTERVAL:3.0t	F-25
SOIL CONDITIONS AT SURFACE:	
SOIE CONDITIONS AT COM ACC.	
PUMP CALIBRATION	
PUMP CALIBRATION  BUILDE MEGINODELISM: Gillan / Gilclic / 2/69	
PUMP MFG/MODELISN: Gilian / Gildir / +169	251377
PUMP MFG/MODELSN: Gillan / Gildir / +169 CALIBRATOR MFG/MODELSN: Elensidyne /	25/222 AT TIME: 0600
PUMP MFG/MODELSN: Gilan Glair 12169  CALIBRATOR MFG/MODELSN: ECCET 1 SENSIGENE / SINITIAL CALIBRATION (QA) TO X 4.17 D=7 L/MIN / CALIBRATION VERIFICATION: ROTAMETER READING 4	AT TIME: 0600 1.00 TIME: 0135
PUMP MFG/MODEL/SN: Gilian / Gildic / 2/69  CALIBRATOR MFG/MODEL/SN: ECOI / SENSIGYNE / SINITIAL CALIBRATION (QA) TO X-4.17 N=7 L/MIN / CALIBRATION VERIFICATION: ROTAMETER READING AT ROTAMETER READING AT ROTAMETER READING	AT TIME: 0600 1.00 TIME: 0135
PUMP MFG/MODEL'SN: Gilian / Gildic / 7/69  CALIBRATOR MFG/MODEL'SN: DCal / Sensidyne / SINITIAL CALIBRATION (OA) TO X-4.17 D=7 L/MIN / CALIBRATION VERIFICATION: ROTAMETER READING A	AT TIME: 0600 1.00 TIME: 0135
PUMP MFG/MODEL/SN: Gilian / Gildic / 2/69  CALIBRATOR MFG/MODEL/SN: ECOI / SENSIGYNE / SINITIAL CALIBRATION (QA) TO X-4.17 N=7 L/MIN / CALIBRATION VERIFICATION: ROTAMETER READING AT ROTAMETER READING AT ROTAMETER READING	AT TIME: 0600 1.00 TIME: 0135
PUMP MFG/MODEL/SN: Gilian Gildic 12169  CALIBRATOR MFG/MODEL/SN: ECET 1 SENSIGYNE 1  INITIAL CALIBRATION (QA) TO X-4.17 N=7 L/MIN /  CALIBRATION VERIFICATION: ROTAMETER READING 1  *IF > 10%, SAMPLE ROTAMETER READING 1  TENAX \$  SAMPLE COLLECTION  TENAX \$	AT TIME: 0600 F. 33 TIME: 0935 4.00 TIME: 0955
PUMP MFG/MODEL/SN: Gilian Gildic / 2/69  CALIBRATOR MFG/MODEL/SN: DCGI / SENSIGIONE / SUPERIOR (QA) TO X-4.17 D=7 L/MIN / CALIBRATION VERIFICATION:  *IF > 10%, SAMPLE TUBES SUSPECT, RESAMPLE  SAMPLE COLLECTION  **CHARCOAL TUBE NUMBER: TC3182  COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION	AT TIME: 0600 00 TIME: 0935
PUMP MFG/MODEL/SN: Gilian Gildic / 2/69  CALIBRATOR MFG/MODEL/SN: DCC1   SCANDANCE / START TIME:  GILIAN GILDIC / 2/69  CALIBRATION (QA) TO X-4.17 N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7	AT TIME: 0600
PUMP MFG/MODEL/SN: Gillan Gildic / 2/69  CALIBRATOR MFG/MODEL/SN: DCGI / SENSIGIONE / INITIAL CALIBRATION (OA) TO X-4.17 D=7 L/MIN / CALIBRATION VERIFICATION: ROTAMETER READING	AT TIME: 0600 00 TIME: 0935
PUMP MFG/MODEL/SN: Gilian Gildic / 2/69  CALIBRATOR MFG/MODEL/SN: DCC1   SCANDANCE / START TIME:  GILIAN GILDIC / 2/69  CALIBRATION (QA) TO X-4.17 N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7 L/MIN / N=7	AT TIME: 0600 00 TIME: 0935

Vm = T x QA = 10.00 x 4.17 = 41.7 LITERS (Vm)





	CLIENT: <u>EPA ACCS</u> DATE: <u>11/14/90</u> EPA SAS NO.: <u>5798 E E 36 3</u> SITE: <u>Hmcd</u> DONOHUE SPL NO.: <u>HD TT 16</u>
	SAMPLING TEAM: M Kuth / D. Downs / T. Puchalski
	SAMPLING CONDITIONS  TEMPERATURE: $\frac{35}{9} = \frac{1.67}{6.67} C (ta)$ HNu: $\frac{0}{0}$ ppm
_	BAROMETRIC PRESSURE (PA): 3020 mm Hg at 0300 AMPM  RELATIVE HUMIDITY: \$1 % CH4: U % LEL  WIND: 5-10 mph fromSE  WEATHER: 50004 mild
	SAMPLE GRID COORDINATES.:  N E K-14  SAMPLING INTERVAL:  SOIL CONDITIONS AT SURFACE:  Sold, dead sumac
	PUMP CALIBRATION
•	PUMP MFG/MODEL/SN: Gilian / Salar / 196  CALIBRATOR MFG/MODEL/SN: Eval / Sensidure /25/2-22  INITIAL CALIBRATION (QA) TO X= Y117 h=7 L/MIN AT TIME: 0600  CALIBRATION VERIFICATION: ROTAMETER READING 4.00 TIME: 1035  TUBES SUSPECT, RESAMPLE % DIFFERENCE 0 •
	CAMPIE COLLECTION
9	SAMPLE COLLECTION  TENAX & CHARCOAL TUBE NUMBER: 1 (4)26  STOP TIME:  START TIME:  TIME ELAPSED (T) 10.00 MINUTES  SAMPLE COLLECTION CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION COLLECTION CONDITIONS:  SHOW CHARCOAL TUBE NUMBER: 14727  COLLECTION COLLECTION CONDITIONS:  CHARCOAL TUBE NUMBER: 14727  COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLLECTION COLL
	TOTAL VOLUMETRIA E OMAN ANI ATOM

 $Vm = T \times QA = \frac{10.00}{10.00} \times \frac{4.17}{10.00} = 41.7$  LITERS (Vm)  $Vs = Vm \times PA \times \frac{298}{760} = \frac{1.79}{273 + 10}$  LITERS (Vs)\*





	CLIENT: EPA ACCS	DATE: 11/14/90	EPA SAS NO.:	5797€ E3
	SITE: Home		DONOHUE SPL NO	: HD FD TT IL
	PROJECT NO.:	. ,		
	SAMPLING TEAM: M KUTH	1/D Down / T.	Puchalski	
			***	
		SAMPLING CONDITION	S	
	TEMPERATURE: 35 F	-32 x 5/9 = 1.67 °C (ta)	HNu:	
	BAROMETRIC PRESSURE (PA): 30.	_		
	RELATIVE HUMIDITY: 91		CH4:	
	WIND: 5-10 mph from		<b>5</b>	
	WEATHER: SUMY MILE			
			<del></del>	
	SAMPLE GRID COORDINATES.:	N E	K-14	
	SAMPLING INTERVAL: 3.0	ft	•	
	SOIL CONDITIONS AT SURFACE:	Sandy dead s	Umac	
		PUMP CALIBRATION		
	PUMP MFG/MODEL/SN:	n / Gilair / 2196		
		2 cal / sinsidyne	125/323	
	THE OPERATION (CA) TO		AT TIME:	
	CALIBRATION VERIFICATION:	ROTAMETER READING ROTAMETER READING	$\frac{4.00}{4.00}$ TIME: $\frac{2}{1}$	100
	*IF > 10%, SAMPLE TUBES SUSPECT, RESAMPLE	% DIFFERENCE	1IME:	
	Commence of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	SAMPLE COLLECTION	i de la companya de la companya de la companya de la companya de la companya de la companya de la companya de	
F 70	TENAX E CHARCOAL TUBE NUMBER: TCY		9	-41.98
6,70			NAX TUBE NUMBER:	1 /6/3
	STOP TIME: START TIME:	opultal COLLECTION C		le Trib
	TIME ELAPSED (T) 10.00	MINUTES		
	_ TA1	TAL VOLUMETRIC FLOW CAL	CULATION	
	10.00	·		
	Vm = Tx QA = 1 1 x 4 1	7 = 41.7 LITERS (Vm	)	



	CLIENT: EPA ARCS DATE: 11/14 EPA SAS NO.: 57936 6-40 L  SITE: Homeo DONOHUE SPL NO.: MSO1  PROJECT NO.: 20026  SAMPLING TEAM: M Kuen/
•	SAMPLING CONDITIONS  TEMPERATURE: °F - 32 x 5/9 = °C (ta)
•	SAMPLE GRIP COORDINATES.:
<b>.</b>	CALIBRATION VERIFICATION:  *IF > 10%, SAMPLE  TUBES SUSPECT, RESAMPLE  *BOTAMETER READING  *IME:  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 10%, SAMPLE  **IT > 1
	STOP TIME:  START THME:  Not applicable  MINUTES  COLLECTION CONDITIONS:  MATIX VOICE  VICE POSED TO be a  TOTAL VOLUMETRIC FLOW CALCULATION
	Vm = T x QA = x = LITERS (Vm) not applicable  Vs = Vm x PA x 298 = LITERS (Vs)*  *RECORD Vs IN LITERS ON SAS CHAIN OF CUSTODY REMARKS COLUMN.



	CLIENT: EDA ACCS	DATE: 41. V/93	EPA SAS NO.: 5798 E -4
	SITE: Home	UNIC	DONOHUE SPL NO .: HD TMS DO!
	VI. C.		DONORIOE SPENO The Transport
	PROJECT NO.: 20026		
	SAMPLING TEAM: NEUEN		
		SAMPLING CONDITIONS	
	TEMPERATURE:	32 x 5/9 = °C (tA)	HNu:ppm
	BAROMETRIC PRESSURE (PA):	mm Hg at AM/PI	• •
	RELATIVE HUMIDITY:	1 200	litable CH4:% LEL
	WIND: mph from	701 04.00	
	WEATHER:	<u></u>	
		. N E	
	SAMPLE GRID COORDINATES.: SAMPLING IMPERVAL:		,
		·	
•	SOLL CONDITIONS AT SURFACE:		
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	DUMP CALIBRATION	
	PUMP MFG/MODEL/SN:	not application	bl
	CALIBRATOR MFG/MODEL/SN:	11 7	
	INITIAL CALIBRATION (QA) TO	L/MIN	AT TIME:
	CALIBRATION VERIFICATION:	ROTAMETER READING	TIME:
	*IF > 10%, SAMPLE		TIME:
	TUBES SUSPECT, RESAMPLE	% DIFFERENCE	<del></del>
		SAMPLE COLLECTION E-V3	
=42	CHARCOAL TUBE NUMBER: TC 4	735 CHARGOALTEN	AX TUBE NUMBER: TY673
	STOP TIME:	collection co	
	START TIME:	<del></del>	sored types
	TIME-ELAPSED (T)N	WINU1ES	
	TOTA	AL VOLUMETRIC FLOW CALC	
	Vm = T x QA = x	LITERS (Vm)	not applicable
	Vs = Vm x PA x 298 =	LITERS (Vs)*	· · · · · · · · · · · · · · · · · · ·
	760 273 ± 1A		
	*RECORD VS IN LITERS ON SAS CHA	IN OF CUSTODY REMARKS C	OLUMN.



	CLIENT: <u>EPA ARCS</u> DATE: <u>IIIIVIGO</u> EPA SAS NO.: <u>5743É F-44</u> SITE: <u>Hymro</u> DONOHUE SPL NO.: <u>HD TIMSO</u> PROJECT NO.: <u>20026</u>
	SAMPLING TEAM:
	SAMPLING CONDITIONS
	TEMPERATURE:
	BAROMETRIC PRESSURE (PA): mm Hg at AM/PM H2S:ppm
-	RELATIVE HUMIDITY:% CH4:% LEL
	WIND: mph from not applicable CH4: % LEL
	WEATHER:
	N F
	SAMPLE GRID COORDINATES.: N E
	SAMPLING INTERVAL:t
	SOIL CONDITIONS AT SURFACE:
	PUMP CALIBRATION
	PUMP MFG/MODEL/SN:
	INITIAL CALIBRATION (QA) TO L/MIN AT TIME:
	CALIBRATION VERIFICATION: ROTAMETER READING TIME:
	*IF > 10%, SAMPLE ROTAMETER READING TIME: TUBES SUSPECT, RESAMPLE % DIFFERENCE
	SAMPLE COLLECTION  E-Y)
E-44	CHARCOAL TUBE NUMBER: TC3148 MTCHARCOAL TENAX TUBE NUMBER: T 4 715
	STOP TIME: COLLECTION CONDITIONS: START TIME:
	TIME ELAPSED (T) MINUTES Wexposed tubes
	TOTAL VOLUMETRIC FLOW CALCULATION
	Vm = T x QA = LITERS (Vm)  Vs = Vm x PA x 298 = LITERS (Vs) Not applicable
	Vs = Vm x PA x 298 = LITERS (Vs)* NOT CYTYTHE LITERS (Vs)*
	*RECORD Vs IN LITERS ON SAS CHAIN OF CUSTODY REMARKS COLUMN.



	, ,
	CLIENT: EPA ARCS DATE: 11/14/90 EPA SAS NO.: 5793 E E-X
	SITE: HOMES DONOHUE SPL NO .: HO TIMSDO
	PROJECT NO.: 20026
	SAMPLING TEAM: M. KUEN!
	SAMPLING CONDITIONS
	TEMPERATURE:°F - 32 x 5/9 =°C (tA)
	BAROMETRIC PRESSURE (PA): mm Hg at AM/PM H2S: ppm  RELATIVE HUMIDITY: %  CH4: % LEL
	WIND: mph from + applicable
	WEATHER:
	WEATHER.
	SAMPLE GRID COORDINATES.: N E
	SAMPLING INTERVAL:
	SOIL CONDITIONS AT SURFACE:
	PUMP CALIBRATION
	PUMP MFG/MODEL/SN:
	CALIBRATOR MFG/MODEL/SN:
	INITIAL CALIBRATION (QA) TO L/MIN AT TIME:
	CALIBRATION VERIFICATION: ROTAMETER READING TIME:
	*IF > 10%, SAMPLE ROTAMETER READING TIME:
_	TUBES SUSPECT, RESAMPLE % DIFFERENCE
	SAMPLE COLLECTION
6	CHARCOAL TUBE NUMBER: TC Y141 CHARCOALTENAX TUBE NUMBER: TY694
	STOP TIME: COLLECTION, CONDITIONS:
	START TIME: - not applicable marrix spike duplicates
	TIME ELAPSED (T) MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES MINUTES
	TOTAL VOLUMETRIC FLOW CALCULATION
	Vm = T x QA = x = LITERS (Vm) / / /
	Vs = Vm x PA x 298 = LITERS (Vs)* not applicable
	760 273 + IA
	*RECORD Vs IN LITERS ON SAS CHAIN OF CUSTODY REMARKS COLUMN.

ATTACHMENT C

LABORATORY RESULTS FIELD TRIAL SAMPLES

## Transmission from:

## ITAS - Cincinnati 11499 Chester Road Cincinnati, Ohio 45246

FAX # (513) 782-4644

Voice # (513) 782-4600

	VOICE # (313) 782-4000	
From:	PATRICK FARRELL	
Department:	GC/MS	
To:	CHARLENE KHAZAE SUMMANING	
Company:	DONAHUE & ASSOCIATES	
Department:		
FAX #:	1-414-458-0550	
Voice #:		
	Special Instructions/Comments:	
	IN & LE FAR SAS PROJECT = 5798-E FURTHER INFO CONTACT BATRICK FARRELL	
	a 513-782-4805	
	· · · · · · · · · · · · · · · · · · ·	
Disposition	of Original: O Return to Originator O Discard	
Total Number of Day	ges including this cover sheet: 9 FAX Operator:	

YOLAT LE GREANES ANALYSIS DATA SHEET

HDTTC1-01

LAB NAME: PELASSOCIATES CONTRACT: SAS 5798-E 5798E-1 / 5799E-2

SAMPLE MATRIX: TEMAX LAB SAMPLE D: X0-11-064-01A

SAMPLE YT/VOL: HA LAB FILE D: 5798-E1

LEYEL (low/med) LOY DATE RECEYED: 11/8/90

% MOISTURE; not dec. NA DATE ANALYZED: 11/8/90

DEUTION FACTOR: 1

CONCENTRATION UNITS: NG/L

		CONCENTRATION UNITS: NE/L
CAS NO.	COMPOUND	<del>116_9€</del> q
		DET. LIMIT
74-87-3	CHLOROMETHANE	3 18 U
74-83-9	BROMOMETHANE	3 +01 U
75-01-4	VINYL CHLORIDE	3-10 U
75-00-3	CHLOROETHANE	3 +0 U
75-09-2	METHYLENE CHLORIDE	# 3 # B
67-64-1	ACETORE	18 5 10
75-15-0	CARBON DISULFIDE	2 5 U
75-35-4	1,1-DICHLOROETHENE	2,5 U
<b>75-3</b> 4-3	1,1-DICHLOROETHANE	2.5 U
<b>540-</b> 59-0	1,2-DICHLOROETHERE (TOTAL)	2 5 U
67-66-3	CHLOROFORM	2_ 5 U
107-06-2	1,2-DICHLOROETHANE	2.5 U
78-93-3	2-BUTANCHE	3 10 U
71-55-6	1,1,1-TRICHLOROETHANE	2 51 U
56-23-5	CARSON TETRACHLORIDE	2 5 U
109-05-4	YMYL ACETATE	3-10 U
75-27-4	BROMODICHLOROMETHANE	2,5 U
78-67-5	1,2-DICHLOROPROPANE	2 A U
10061-01-5	ois−1,3-DICHLOROPROPEI€	2.5 U
79-01-6	TRICHLOROETHENE	2.5 U
124-48-1	DIBROMOCHLOROMETHANE	2 5 U
79-00-5	1,1,2-TRICHLOROETHANE	25 U
71-43-2	BENZENE	21 8 J
10061-02-6	trans-1,3-DICHLOROPROPEIE	2 5 U
75-25-2	BROMOFORM	250
108-10-1	4-METHAL-2-PENTANCHE	3 to 0
591-78 <del>-</del> 6	2-HEXANDRE	3 Ja U
127-18-4	TETRACHLOROETHEIE	2 8 U
79-34-5	1,1,2,2-TETRACHLORGETHANE	2 g U
109-88-3	TOLUENE	72 24 B
108-90-7	CHLOROBENZENE	2,5 U
100-41-4	ETHYL BENEZEHE	25 U
100-42-5	STYRENE	25 U
1330-20-7	XMENE (TOTAL)	2,5 U

#### YOLATRE ORGANICS ANALYSIS DATA SPEET TENATMELY DENTIFED COMPOURS

HDTT01-01

LAB NAME: PEI ASSOCIA	TES	CONTRACT:	SAS 5798-E	5798-E1 /	57 <del>98-</del> 22
SAPPLE MATRIX:	TENAX	LAB SAMPLE	D:	X0-11-064-	-01 A
SAMPLE VT/VOL:	<u>NA</u>	LASFLE D:		5798-£1	
LEVEL:(low/med)	LOY	DATE RECEY	<b>9</b> :	11/8/9	0
% MOISTURE: not dec.	<u>NA</u>	DATE MALY	ক্য:	11/8/9	<u>8</u>
NUMBER OF TIC'S FOUND:	<b>2</b>	DELUTION FAC	CONCENTRAT	1 ION UNITS:	- NG/L
CAS NUMBER	COMPOUND NAME -		RET. TIME	NG-8C	<u> </u>
76-13-1	112-TRICHLORO-122-TRIFI	UOROETHANE	922		J -
	UNKNOWN HYDROCARBON		11 26	3 14	15
		,			1-1
•					
					<del>                                     </del>
` .					
· · · · · · · · · · · · · · · · · · ·					<b>  </b>
					<del>  </del>
				<del></del>	<del>                                     </del>
		}			<b>  </b>

#### VOLATILE ORGANICS ANALYSIS DATA SHEET

1t0TO2-51

LAB NAME. PELASSOCI	ATES	CONTRACT: SAS 575	98-E 5798E-3 / 5799E-4
SAMPLE MATRIX:	TENAX	LAB SAMPLE D:	X0-11-064-02A
SAMPLE YT/VOL:	<u>NA</u>	LABFLE D:	57 <del>98-</del> E3
LEYEL :(low/med)	LOY	DATE RECEVED:	11/8/90
% MOISTURE: not dec.	NA ·	DATE ANALYZED;	11/8/90
		DILUTION FACTOR:	<u> </u>

CONCENTRATION UNITS: NG/L

		CARCENIKATION UNITS: /Y C	JL
CAS NO.	COMPOUND	<del>NG_DC</del> 0 °	<u>_</u> _
	:	DET. LIMIT	
74-87-3	CHLOROMETHANE	5 xd U	
74-83-9	BROMOMETHANE	5 J8 U	
75-01-4	VINYL CHLORIDE	5 xd U	$\neg$
75-00-3	CHLOROETHANE	5 10 U	
7 <del>5-09-</del> 2	METHYLENE CHLORIDE	37 8 75	8
67-64-1	ACETONE	18 8 10	$\neg$
75-15-0	CARBON DISJUFIDE	73 5	
75-35-4	1,1-DICHLOROETHENE	2 81 U	
75-34-3	1,1-DICHLOROETHANE	ن کر 2	$\neg$
<b>540-59-</b> 0	1,2-DICHLORCETHENE (TOTAL)	2 8 U	$\neg$
<del>67-66-</del> 3	CHLOROFORM	2 5 U	$\neg$
107-06-2	1,2-DICHLOROETHANE	2 8 U	$\neg$
7 <del>8-7</del> 3-3	2-BUT ANCHE	5 หมี บ	$\neg$
71-55-6	1,1,1-TRICHLOROETHANE	82 8	$\neg$
<b>36-73-</b> 5	CARBON TETRACHLORIDE	2 5 0	$\neg$
108-05-4	VINYL ACETATE	5 JG U	$\neg$
75-27-4	BROMODICHLOROMETHANE	2 & U	$\neg$
7 <del>8-6</del> 7-5	1,2-DICHLOROPROPANE	2 # U	
18061-01-5	eis-1,3-DICHLOROPROPEIE		$\Box$
79-01-6	TRICHLORGETHENE	2 8 U	
124-48-1	DIBROMOCHLOROMETHANE	2 & U	
79-00-5	1,1,2-TRICHLOROETHANE	2 A U	
71-43-2	30@E	12 X J	$\Box$
10061-02-5	trans-1,3-DICHLOROPROPENE	28 U	
75-25-2	BROMOFORM	2 & U	
108-10-1	4-METHAL-2-PERTANONE	ט ואל 5	
591-78-6	2-HEXANONE	5 x6 U	
127-18-4	TETRACHLOROETHERE	2,5 U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	2.8 U	
108-88-3	TOLUENE	5731 8	_
108-90-7	CHLOROBENZENE	2 8 U	
100-41-4	ETHML BENZENE	2 8 U	
100-42-5	STYPENE	2 & U	
1330-20-7	XYLENE (TOTAL)	22 0	1

#### VOLATEE ORGANICS ANALYSIS DATA SPEET TENATIVELY DENTIFED COMPOUNDS

HDTT02-01

LAB HAME: PELASSOCIA	TES	CONTRACT:	SAS 5798-E	5798-E3 /	57 <del>98-</del> €4
SAMPLE MATRIX:	TENAX	LAB SAMPLE	D:	X0-11-064-	02A
SAMPLE YT/VOL:	NA	LABFLE D:		<del>37%8-83</del>	
(bem/wed): LBVEL	L0¥	DATE RECEY	<b>छ</b> :	11/8/9	<u> </u>
% MOISTURE: not dec.	NA	DATE ANALY	<b>2</b> 20 :	11/8/9	)
NUMBER OF TIC'S FOUND:	3	DELUTION FAC	CONCENTRATE	en inte y	- VEIL
CAS NUMBER	COMPOUND HAVE -		RET. TIME	NG 06	0
76-13-1	112-TRICHLORO-122-TRIFE UNKNOWN HYDROCARSON	LUOROETHANE	9:18 11 <i>2</i> 2		
	UNKHOYN HYDROCARBON		1622		J
•			·		
			<del></del>		—

#### YOUATLE ORGANICS ANALYSIS DATA SHEET

HDTT03-CI

LAB NAME: PEI ASSOCIATES CONTRACT: SAS 5798-E 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 / 5798E-5 /

SAMPLE YT/NOL: NA LABITED: 5798-65

LEYEL (low/med) LUY DATE RECEVED: 11/8/90

% MOISTURE: not dec. NA DATE ANALYZED: 11/8/90

DELUTION FACTOR: 1

CAS NO.	COMPOUND	CONCENTRATION UNITS: NG/L
CAS NO.	<u> </u>	DET. LIMIT
74-87-3	CHLOROMETHANE -	11 40 0
74-63-9	BROMOMETHANE	11 Jes U
75-01-4	VINYL CHLORDE	II Jet U
75-00-3	CHLOROETHANE	11 18 U
75-09-2	METHYLENE CHLORIDE	15 B B
67-64-1	ACETONE	DK 18 NO
75-15-0	CARBON DISULFIDE	6 8 U
75-35-4	1,1-DICHLOROETHENE	680
75-34-3	1,1-DICHLOROETHANE	6 8 U
<b>540-59-</b> 0	1,2-DICHLOROETHENE (TOTAL)	6 8 U
67 <del>-66-</del> 3	CHLOROFORM	6 8 U
107-06-2	1,2-DICHLORGETHANE	6 কা ধ
7 <del>0-9</del> 3-3	2-BUT ANONE	ט פע וו
71-55-6	1,1,1-TRICHLOROETHANE	6 5 4
<b>36-23-</b> 5	CARBON TETRACHLORIDE	6 \$ U
109-05-4	VIMAL ACETATE	ט סג וו
<b>75-27-</b> 4	BROMODICHLOROMETHANE	6 8 U
7 <del>8-8</del> 7-5	1,2-DICHLOROPROPANE	U 7 U
10061-01-5	ois-1,3-DICHLOROPROPERE	6 81 U
79-01-6	TRICHLOROETHERE	6 AT U
124-48-1	DEROMOCHLOROFETHANE	6 25 U
79-00-5	1,1,2-TRICHLOROETHANE	6 31 U
71-43-2	BENEZINE	2· 5 J
10061-02-6	trans-1,3-010-LOROPROPEIE	2· 8 J
75-25-2	BROMOFORM	6 \$ U
106-10-1	4-METHYL-2-PENTANONE	ט ואן וו
<del>591-78-6</del>	2-HEXANONE	11 10 0
127-18-4	** TETRACHLOROETHENE	6 SI U
79-34-5	1,1,2,2-TETRACHLOROETHANE	6 X U
1 <del>00-08-</del> 3	TOLUENE	19-21 7
108-90-7	CHLOROBEREDE	6 X U
100-41-4	ETHYL BENZENE	6 x U
100-42-5	STYRENE	6 X U
1330-20-7	XYLENE (TOTAL)	6 X U

## VOLATLE ORGANICS ANALYSIS DATA SHEET TENATIVELY DENT FED COMPOUNDS

HDTTO 3-01

LAB NAME: PELASSOCIA	TES	CONTRACT:	SAS 5798-E	5799-65 / 5	798-55
SAMPLE MATRIX:	TEHAX	LAB SAMPLE	D:	X0-11-064-0	SA
SAMPLE YT/VOL:	NA	LAS FLE D:		579 <del>8-</del> 55	<del></del>
LEVEL (low/med)	LOY	DATE RECEY	<b>D</b> :	11/8/90	
% MOISTURE: not dec.	NA NA	DATE ANALYZ	<b>5</b> 0:	11/8/90	<del></del>
NUMBER OF TIC'S FOUND:		DILUTION FAC	TOR:	1	
CAS NUMBER	COMPOUND NAME -			NG-8C	970
76-13-1	112-TRICHLORO-122-TRIFE	LUOROETHANE	9:20	200	ਹ
					-

#### YOLATEL COCANOS ANALYSIS DATA SIÆET

LAB NAME: PEI ASSOCI	ATES	CONTRACT: SAS 579	8-E YBLKACO
SAMPLE MATRIX:	TENAX	LAB SAMPLE D:	VBLKACO
SAMPLE YT/VOL:	<u> </u>	LABFLE D:	VBLKACI
LEVEL (low/med)	FOA	DATE RECEVED:	11/8/90
5 MOISTURE: not dec.	NA	DATE ANALYZED:	11/8/90
		DELUTION FACTOR:	

#### CONCENTRATION UNITS:

CAS NO.	COMPOUND	NG_DC	Q
		DET. LIMIT	
74-87-3	CHLOROMETHANE	10	υ
74-83-9	BROMOMETHANE	10	۲
<del>75-</del> 01-4	VINTL CHLORIDE	10	U
75-00-3	CHLOROETHANE	10	U
75-09-2	· METHYLENE CHLORIDE	10 5	
67 <del>-64</del> -1	ACETONE	10	U
75-15-0	CARBON DISULFIDE	5	U
75-35-4	1,1-DICHLOROETHENE	5	U
75-34-3	1,1-DICHLOROETHANE	5	U
<b>540-</b> 59-0	1,2-DICHLOROETHENE (TOTAL)	5	U
67-66-3	CHLOROFORM	5	U
107-06-2	1,2-DICHLOROETHANE	5	U
<del>78-9</del> 3-3	2-BUT ANONE	13 10	
71-55-6	1,1,1-TRICHLOROETHANE	5	U
<b>56-23-5</b>	CARBON TETRACHLORDE	5	U
108-05-4	YMYL ACETATE	10	U
75-27-4	BROMODICHLOROMETHANE	5	U
78-87 <i>-</i> 5	1,2-DICHLOROPROPANE	5	U
10061-01-5	ois-1,3-DICHLOROPROP€NE	5	ีย
79-01-6	TRICHLOROETHENE	5	U
124-48-1	DEROMOCHLOROMETHANE	5	U
79-00-5	1,1,2-TRICHLORDETHANE	5	บ
71-43-2	BEIGENE	5	บ
10061-02-6	trans-1,3-DICHLOROPROPENE	5	U
75-25-2	BROMOFORM	5	IJ
108-10-1	4-METHAL-2-PENT ANDRE	17 10	
<b>591-78-6</b>	2-HEXANONE	ठ७ 10	
127-18-4	TETRACHLOROETHERE	5	U
79-34-5	1,1,2,2-TETRACHLOROETHANE	5	U
108-68-3	TOLUEIE	5	U
10 <del>8-9</del> 0-7	CHLOROBENZENE	5	U
100-41-4	ETHYL BEPREME	5	U
100-42-5	STYRENE	5	U
1330-20-7	XYLENE (TOTAL)	5	U

#### YOUATRE CROANES ANALYSIS DATA SHETT TENATMELY DENTIFED COMPOUNDS

LAB HAME: PELASSOCIA	TES	CONTRACT: SAS 5798-1	VBLKACO		
SAPPLE MATRIX:	TENAX	LAB SAMPLE D:	YBUKACO		
SAMPLE YT/YOL:	NA	LAB FLE D:	YBUKACO	YBLKACO	
LEVEL (low/med)	LOY	DATE RECEVED:	11/8/90	11/8/90	
% MOISTURE: not dec.	KA	DATE ANALYZED:	11/8/90		
NUMBER OF TIC'S FOUND:	<u> </u>	DILUTION FACTOR:	1		
CAS NUMBER	COMPOUND NAME	CONCENTRAT RET. TIME			
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## TM No. 13

#### MEMORANDUM

DATE: December 10, 1990

TO: Vanessa Harris

Project Files, Himco Dump Site

CC: M. Kuehl - RI Lead

R. Gau - Project Manager

M. Crosser - TSQAM

FROM: Rob Cannestra, Hydrogeologist

SUBJECT: EPA ARCS Region V Contract No. 68-W8-9003

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump RI/FS

#### INSTALLATION OF WATER TABLE WELLS AND LANDFILL CAP SAMPLING

#### Introduction.

Six shallow observations wells were installed on or adjacent to the Himco Dump site between the dates of November 5, 1990, and November 14, 1990. Water table observation wells were installed to obtain water elevation information and to allow for groundwater sampling. Tasks associated with the installation of these wells included logging and classification of continuously sampled soils, field screening of soil samples, collection of soil samples for chemical and geotechnical analysis, and well installation. In addition, geotechnical samples were taken from five locations on the landfill cap. Landfill cap samples were collected for testing to determine the engineering properties of the cap. The following text summarizes the methods and procedures used to complete these tasks and points out deviations from procedures written in the Field Sampling Plan (FSP) or drilling specifications.

#### Drilling and Sampling

Soil borings BRG-1 through BRG-6 were advanced using hollow stem auger techniques. The subcontractor, John Mathes and Associates (Mathes), used a Central Mine Equipment (CME) 550 ATV rig equipped with 4.25 inch ID (8.0 inch OD) hollow-stem augers to complete these borings. All borings were continuously sampled from ground surface to total depth using a 3 inch OD stainless steel split spoon sampler. Two stainless steel split spoon samplers were used. Split spoon samplers were decontaminated between sampling intervals according to the following steps: (1) tap water rinse, (2) alconox wash, (3) tap water rinse, (4) isopropanol rinse, (5) two deionized water rinses.

At each location, borings were drilled and sampled to a depth of 16.0 feet to allow the well screen to be installed intersecting the water table. All borings were extended a nominal 1 foot by blind drilling with the hollow stem



augers. The extension of borings was completed to accommodate any formation collapse during monitoring well installation. After completing a well installation the drill rig and drilling tools were steam cleaned before proceeding to the next installation.

#### Field Screening and Logging of Soil Samples

After recovering the split spoon and immediately upon opening the sampler barrel, soil samples were field screened by slowly running an HNu photoionization detector (PID) over the length of the sample. The highest PID reading observed for each sample interval was recorded on the boring log.

After field screening, samples were collected for volatile organic compound (VOC) and other chemical analyses. Samples were logged by recording the attempted sample interval, sample length recovered, blow counts, and providing a visual description of the soil. Sample descriptions included the sample color (reference Munsell color chart), relative density, major and minor soil components, general engineering properties and references to the depositional environment. Based on these observations, soils were classified according to the Unified Soil Classification System (USCS). Completed soil boring logs are attached in Appendix A.

#### Sample Collection

Samples were collected for chemical and geotechnical analysis. Chemical sampling included samples for VOC, base neutrals (BNA), polychlorinated biphenyl (PCBs), cyanide and metals analysis. Geotechnical sampling included samples for Total Organic Carbon (TOC), Atterberg limits and grain size analyses. Samples collected during the completion of borings for water table well installations are summarized in Table 1.

#### Chemical Sampling

VOC samples were collected immediately after field screening the split spoon. Two 120 ml. jars were filled with soil taken over the entire length of the recovered sample for VOC analysis. After filling the VOC sample jars the remaining soil was emptied into a stainless steel mixing bowl and mixed with a stainless steel spoon. After mixing, two 8 oz. composite samples were taken of the homogenous soil mixture for BNA, PCB, and metals analyses. The sample mixing bowl and spoon were decontaminated between samples by the same method as the split spoon samplers.

According to the Work Plan, chemical samples were to be taken from the first five (5) split spoons (upper 10 feet) at each shallow well location. However, elevated PID readings, peculiar odors or visual signs of contaminations required the collection of samples at depths below 10 feet. In these cases, the additional deeper samples were substituted for shallower samples displaying no signs of contamination. Potentially contaminated samples were collected below 10 foot depths in borings BRG-01, BRG-03, BRG-05, and BRG-06.

TABLE 1

#### RECORD OF COLLECTED SOIL SAMPLES WATER TABLE WELL BORINGS Himco Dump Site December, 1990

Boring	Depth Interval(Feet)	<u>VOCs</u>	CHEMICAĹ SAMPLINO BNA/PCB Metals <u>Pesticides Cyani</u> o	ì	GEOT	TECHNICAL SAM Atterberg <u>Limits</u>	PLING <u>Grain Size</u>
BRG-01	0-2	<b>X</b> .	x x		Х		
	2-4	x	х х				
	4-6	X	X X			· 1	
	6-8	X	X X	X		* * * <u>*</u>	
	10-12	x	X X			1. · · ·	
	14-16					X	Х
BRG-02	0-2	х	x x				
DIG OL	2-4	X	X X		X		
	4-6	X	X X		<b>4.</b>		
	6 - 8	X	х х				
	8 - 10	X	X X X X				
	14-16					X	x
BRG-03	0 - 2	х	x x				
	2 - 4	Х	X X				
	4 - 6	X	X X	X			
	6 - 8	Х	x x				
	8-10				Х		
	14-16	X	x x			x	х
BRG - 04	0-2	х	X X				
	2 - 4	X	X				
	4 - 6	Х	х х				
	6 - 8	х	X X				
	8-10	X	X X				
	14-16					X	X

TABLE 1

# RECORD OF COLLECTED SOIL SAMPLES WATER TABLE WELL BORINGS Himco Dump Site December, 1990

(continued)

	Depth Interval		CHEMICAL SA BNA/PCB	AMPLING Metals	•	GEOT	ECHNICAL SAM Atterberg	PLING
Boring	(Feet)	<u>VOCs</u>	<u>Pesticides</u>	<u>Cyanide</u>	<u>Duplicate</u>	TOC	<u>Limits</u>	<u>Grain Size</u>
BRG-05	2-4	х	x	х	X		. •	
	8-10	X	X	X				
	10-12	X	X	Х			* j	
	12-14	X	X	X				
	14-16	Х	x	Х		X	<b>x</b>	X
BRG-06	0-2	x	x	X				
	4 - 6	X	X	X				
	6 - 8					Х	. <b>X</b>	X
	8-10	X	X	Х				
	12-14	X	X	Х				
	14-16	X	Х	X				

W/A/AG7

#### Geotechnical Samples

Geotechnical samples were collected randomly from borings completed for the installation of shallow observation wells. With the exception of boring BRG-06 samples for Atterberg limits and grain size analysis were taken in the interval to be screened during the well installation. Samples for Total Organic Carbon (TOC) analysis were not collected from every boring completed for the installation of shallow observation wells.

Geotechnical samples were collected after retrieval of chemical samples from the remaining composited soil. One 8 oz. jar was collected for Atterberg limit and grain size analysis. An additional 8 oz. jar sample was taken for TOC analysis when applicable.

All samples were labelled, packaged, and shipped according to the details of the field sampling plan. The site sample custodian completed the appropriate chain-of-custody documentation. Samples were shipped to the appropriate labs by Federal Express.

#### Well Installations

Shallow observation wells W-101A through W-106A were installed to intersect the water table. Observations made during the drilling and sampling of borings completed for the installation of wells were used to determine the depth to the water table. Because of the shallow water table encountered, modifications were made to the general well specifications to ensure that the well screens intersected the water table. Table 2 summarizes well construction information and general well information for water table observation wells at the Himco Dump site. Well construction diagrams are included in Appendix B.

Wells were constructed using Schedule 5, Type 304, flush threaded stainless steel riser attached to 10-foot, continuous wire wrap, 0.010-inch slot, stainless steel screens. Stainless steel screens and riser were manufactured by Diedrich. Well screens and riser were steam cleaned immediately proceeding installation, handled only while wearing clean latex gloves, and wrapped in protective plastic during transport. All flush threaded joints were wrapped with teflon tape to provide a tight seal. A concentrated effort was made to assure that well construction materials were not contaminated during handling or installation.

In general, observation wells were installed to depths of approximately 16 feet rather than the anticipated 20 feet. To allow for the installation of a 10-foot screen in these shallower borings, the thickness of the filter pack overlying the screen, bentonite seal, and concrete cap were decreased. In the modified well installations, filter packs were extended from 0.3 (WT-105A) to 1.2 (WT-101A) feet above the top of the well screen. Bentonite pellet seals were cut to a nominal 1.0 foot thickness rather than the specified 2.0 feet. The accuracy of measured depths was assured by the shallowness of these installations.

TABLE 2

WATER TABLE OBSERVATION WELL INFORMATION Himco Dump Site December, 1990

	State Plane Coordinates		Top of Pipe	Screen Length	Depth to Bottom of Well	Depth to Bottom of Boring	Depth to Bottom of Bentonite Seal
Well Number	North	East	Elevation	(Feet)	(Feet)	(Feet)	(Feet)
WT-101A	1,531,617.69	407,617.00	764.35	10	16.3	17.5	4.2
WT-102A	1,534,861.43	405,928.37	769.08	10	16.0	16.8	4.5
WT-103A	1,532,537.90	405,532.73	760.59	10	16.0	17.0	4.0
WT-104A	1,531,496.08	406,013.86	765.57	10	16.3	17.6	4.3
WT-105A	1,531,174.04	407,105.64	762.94	10	16.0	16.8	4.9
WT-106A	1,530,932.11	407,806.75	761.47	10	16.2	17.0	5.0
4. 4 0							

W/A/AG8

In addition, to facilitate the timely completion of wells, hydration times at several locations were shortened to approximately one-half hour. The integrity of these seals was visually checked prior to the installation of a concrete cap. Finally, concrete cap thickness was reduced from a specified 5.0 feet to a nominal 3.0 foot thickness to accommodate the shallow installations. None of these modifications is expected to adversely effect the performance of these wells.

Despite efforts made to ensure that wells screens intersected the water table, the extremely shallow water table at the location of WT-103A made this impossible. During installation, depth to water in WT-103A was approximately 4.0 feet, placing the water level above the interval to be screened. Temporal fluctuations may cause water levels to decrease, potentially lowering the water level into the screened interval at this location.

#### Landfill Cap Geotechnical Samples

Geotechnical samples including jar samples for grain size and Atterberg limit testing, and shelby tube samples for consolidation undrained triaxial shear were recovered from five (5) locations on the landfill cap. Landfill cap sample locations varied slightly from those originally specified because they were located at points on the geophysical survey grid rather than the proposed site survey grid. The site survey grid was not completed at the time landfill cap samples were taken. Rather than sample at random or approximate locations on the cap, samples referenced geophysical survey grid points. Landfill cap geotechnical sample locations are included in the site location map (Figure 1).

Landfill cap samples were recovered by digging through the topsoil cover (average thickness approximately 0.5 feet) to the calcium sulfate cap. Once the cap was encountered, excavations were extended by hand to a depth of approximately 1.5 feet. At this depth, two pint size jar samples were collected for grain size and Atterberg limit testing. After collecting jar samples the CME 550 drill rig was used to push 24 inch shelby tubes. The dense nature of the calcium sulfate cap made pushing the tubes difficult. At several locations, shelby tubes appeared to penetrate through the cap material into waste. If shelby tubes potentially encountered waste they were marked as containing potential waste on the tube exterior. Additional shelby tube samples were attempted at two (2) locations for one-dimensional consolidation testing, however, no sample was recovered at one location(adjacent to GE-01). Geotechnical sample holes were backfilled with spoils and hand compacted.

#### Atmospheric Monitoring

Air quality monitoring within the breathing zone and at the borehole was completed after recovery of the samples. A PID was used to monitor for volatile organic compounds. A GasTech® meter was used to monitor the levels of hydrogen sulfide (H<sub>2</sub>S), oxygen, and indicate the percent of the Lower Explosive Limit (LEL) for methane. A miniRAD radiation detector was used to monitor for radioactivity. The highest readings produced by each instrument were recorded in the sections provided on the boring log. During the drilling and

sampling of BRG-06, one sampling team member became physically ill while jarring samples from the 12-14 foot depth interval. However, atmospheric monitoring of the borehole and recovered sample did not show any elevated readings at this depth. Atmospheric monitoring results recorded during the completion of borings is included in the completed soil boring logs attached in Appendix A.

Atmospheric monitoring was completed periodically during well installations. Efforts were made to take readings at the beginning of the installation procedure and during the installation as sections of auger were removed from the boring. Atmospheric monitoring during well installations was generally terminated after the installation of the bentonite seal as the boring was then considered effectively plugged off. Results of atmospheric monitoring during well installations were recorded on daily atmospheric monitoring logs attached in Appendix B.

During the recovery of geotechnical samples from the landfill cap atmospheric monitoring was completed as shallow excavations were completed and as shelby tubes were withdrawn. Atmospheric readings taken during geotechnical sampling of the landfill cap were recorded on daily atmospheric monitoring logs attached in Appendix C.

No elevated levels were recorded during atmospheric monitoring conducted during the completion of shallow monitoring wells and landfill cap geotechnical sampling.

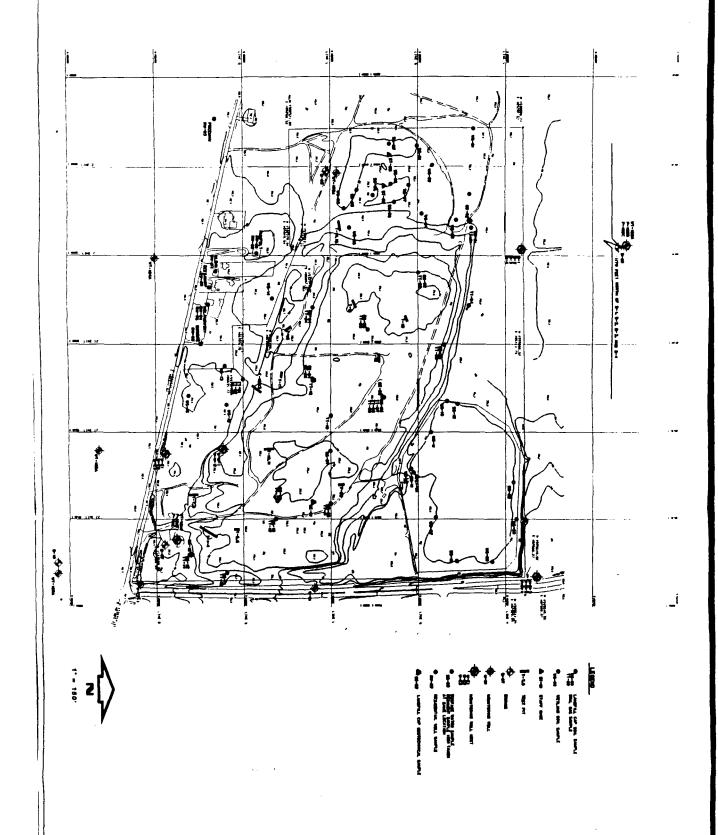
#### SUMMARY

Six shallow soil borings were completed for the installation of water table observation wells. Soil Samples were recovered for chemical analysis from the 0 to 10 foot depth interval or if contamination was indicated or observed, from intervals below 10 feet. Contamination was observed at depths below 10 feet in borings BRG-01, BRG-03, BRG-05, and BRG-06. Soil samples were submitted for VOC, BNA, PCB, pesticides, metals and cyanide analyses. Select soil samples were submitted for geotechnical analyses including TOc, grain size, and Atterberg limits.

Six water table observation wells were installed to intersect the water table. These wells were constructed to provide groundwater elevation information and to facilitate groundwater sampling. Concrete cap and bentonite seal thicknesses were modified to accommodate proper screening due to the shallow water table. Despite these efforts, the water level in WT-103A is above the well screen.

Geotechnical samples of the landfill cap below the surface cover were collected to determine the engineering properties of the cap. Jar and shelby tube samples of the landfill cap were collected and submitted for grain size, Atterberg limit, consolidation undrained triaxial shear, and one-dimensional consolidation testing. Shelby tube samples were potentially pushed into waste material and were appropriately labeled. At one shelby tube sample location no sample was recovered.

## FIGURE 1 SAMPLE LOCATION MAP



MAY 1881

FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA DONONIC ENGINEERS
ARCHITECTS
SCIENTISTS

APPENDIX A

SOIL BORING LOGS

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## BORING LOG

SOIL BORING NO.

Engineers & Architects

SITE: HIMCO DUMP PROJECT NO. 20026.

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SITE: HIMCO DUMP PROJECT NO. 20026

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SOIL BORING NO.

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Engineers	& Architects
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PROJECT NO. 10026

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SITE: WIMCO DUMP PROJECT NO. 20036

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Engineers & Architects

SITE: HIMED DUMP PROJECT NO. 20026

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SOIL ECRING NO.

Engineers & Architects

SITE: DUTER FUND PROJECT NO. 20026

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## BORING LOG

SOIL BORING NO.

Engineers & Architects

PROJECT NO. 20026



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APPENDIX B

WELL CONSTRUCTION DIAGRAMS

Donohue Water Table Well Installation Diagram Form Sites HIMCO DUMP SITE Dates 11-Inspected By: R. CANNESTRA Project No. 20026 Well No. WT-102A indineers & Architecte & Campbin Driller/Contractor D. ELLID / MATHED Concrete Digmeter PROTECTIVE CASING GUARD POSTS 'کات المحرى Type STEEL Vented Yes No Type CA2 Diameter 4" Locked YES
Length 5.6' Key = 2532 723 MASTER 2.6 Projective PVC Casina Silcx 25 Length Up CAP OR PLUG Vented Yes No Type 7/C 4-18 CM W THEEADED PL CONCRETE COLLAR Concrete Thickness 3.0 Coment PRES-MIX | Ibs. + Water \_\_\_\_ \_\_\_\_ gal .\_\_ Total Quantity 2 BAGS I 7 cal gat. eToo of 30 ft. Monufacturer GENTEAL CONTRACTORS 54. w.s. 114-SAGI Thickness 15 • Top 4.5 af Powder/Granutar Pellets Quantity\_ Filter Hydrated Hoo # 3 \_ gal.. Time 17:05 - 17 45 Pack Manufacturer PRICNITE , ROCKTEST , INC Filter TYPE 5 **グアル・ハーモクフ** Pack Thickness [2.3] \_ Schedule \_\_\_\_\_\_ 3C\_\_\_ 3C\_\_\_ 1.0. 1.9 Length/Sec. 10. \_\_\_NO. Of Sec. PARTIAL Manufacturer DIEDRICH JOINTS Flush Threaded (es) No\_ 16.0 Veil Teflon Toped (Yes/No 0-Ring Yes/No Manufacturer ACE HARDWAZE Top of 5.25 ft. FILTER PACK Type(s) SILICA SAND 310-20 Source Colorado Silica SAND Co. Volume 2 % 100 16 3465 Manufacturer COVO SILICA SAND Co. Colorado sprintes, Colo. Screen 10.35 SCREEN CONTINUOUS WIRE WERE TYPE 5 Length Schedule GEADS 304 ACTUAL \_ No. of Sec.\_2 Length/Sec. 5.3 **WEN جددورا** 10.01 Slot Size 00.0 No. Slots/ft. Will WEA Manufacturers DIEDZICH TAIN ED CAP OR PLUG Type TEEL Bottom - Length <u>0.15</u> Screen 16.0 11 +Boring MATERIAL COLLAPSE & FILTER SAND Mater. Thickness Q8 Depth 16.8 • Measured From Ground Surface Borehole Diameter WATER SOURCE ELKHART MUNICIPAL WATER PLANT

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Water Table Well Installation Diagram Donohue Siles HIMCO DUMP SITE DOTES 11/12/QA Well No. WT-104A Inspected By: R. CANNESTLA Project No. 20026 022 naineers & Architects Driller/Contractor D ELLY / MATHES SOUTHWESTER COME SETUMENT DISC Congrete Digmeter PROTECTIVE CASING GUARD POSTS 205 Loom Vented YesyNo Type ETTING 12 Locked VE4 MASTER Olometer\_ Protective 5.6 Langth -PVC Casina Stick | 2.5 SUP CAP (PUL Langth Ų٥ CAP OR PLUG Vented TENNO Type THEEADSD CONCRETE COLLAR Concrete Thickness 3.0 Coment FALMIX Ibs. + Water gai. Total Quantity eTop \_gal . \_ of 3.0 ft. Manufacturer PALMIX Sagi + Top 4.3 ft. Thickness SEAL %' af Powder/Granular (Peilets) Quantity 3.0 Filter \_ gal.. Time <u>9:50 - 11:15</u> Hydrated 2.0 Pack Manufacturer PELCALTE L. ROCTEST Filter FUNN THEESO Pack PIPE Type ----Thickness 13.3 Schedule TYPE 5 72. 2.0 -No. Of Sec. PARTIAL Length/Sec. 100 Manufacturer DIEDZICH JOINTS Flush Threaded (183/No \_ Weil Tefion Taped (PayNo 0-Ring Yes/No) 163 Length ACE HARDWARE Manufacturer \_\_\_ Top of 5.55ft. FILTER PACK Type(S) GRADE 10/20 BILLER SAN Source COLOCADO SILICA SAND Volume 3 5 10016 PAGE 24.0 Manufacturer ColoRADD SILICA SAND INC. P.O. BOX 15615 coroskos genes, co 10.75 SCREEN Length Type WEST - STAWLETS SCHOOL TYPE 5 10.0 FT OPEN \*Length/Sec. 5.3 No. of Sec. 2 مععته معمد 1.0. 1.9 0.0. 2.0 Siot Size \_\_ COLO - No. Sigis/ft. -Manufacturers DIEDRICH STAINLEST CAP OR PLUG Type THEEADED PLUG Langth Q 15 **◆** Bottom Screen 16.3 11. +Boring COLLAPSE & FILTER DACK MATERIAL Mater. Depth 17.6 Thickness D. 65' Measured From Ground Surface Borshole Diameter WATER SOURCE ELKHART MUNICIPAL WATER PLANT Notes: WATER LEVEL 9.9 FT FROM BY THOUGH AUGRES

@ COMPLETION

20-04-199

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Well No. WT : COA

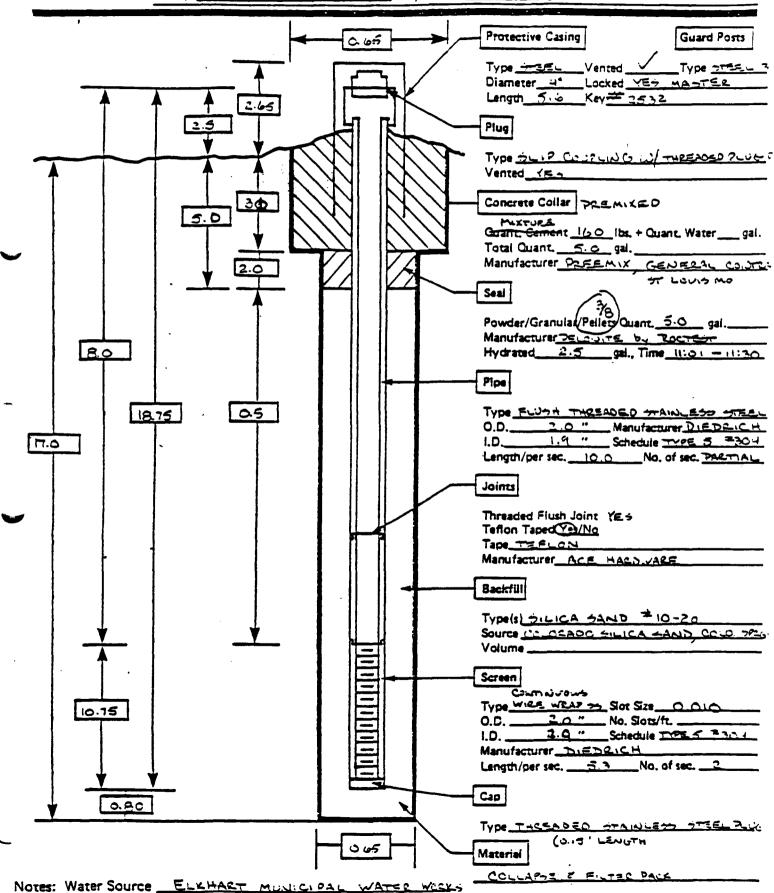
Donohue

OBSERVATION WELL INSTALLATION DIAGRAM

A1

Site: HIMCO DUMP ELKHART IN Date: 40 19852 9 1990

By: R. CANNETTA / MATHER Project No. 20026.023



# Onohue agineers & Architects

## Atmospheric Monitoring Log Field Safety

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Engineers & Architects

## Atmospheric Monitoring Log Field Safety

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Engineers & Architects

## Atmospheric Monitoring Log Field Safety

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#### TECHNICAL MEMORANDUM NUMBER 14

DATE: May 1, 1991

TO: Vanessa Harris, Site Manager

CC: Marcia Kuehl, RI Lead

Roman Gau, Project Manager

Mike Crosser, TSQAM

FROM: Anya Kirykowicz

Dave Richardson

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J

Himco Dump RI/FS

Donohue Project No. 20026.024

#### WETLANDS ASSESSMENT AND IDENTIFICATION

#### Introduction'

On October 22, 23, and 24, 1990 Donohue & Associates, Inc. conducted an on-site wetlands assessment and identification at the Himco Dump Superfund Site as part of the RI Work Plan. The delineation was conducted by Dave Richardson and Anya Kirykowicz. Three suspected wetland areas were designated as Northwest Wetland Area, Wetland Remnant, and Gravel Pit Wetland Area. The location of these areas is presented in Figure 1.

#### Methods

As outlined in Section 4.6.1 of the Final Field Sampling Plan, Himco Dump RI/FS Elkhart, Indiana, three essential characteristics were used to identify wetland areas. These characteristics are: hydric soils, wetland hydrology, and hydrophytic vegetation. These characteristics and their technical criteria are described below. The approximate boundaries between wetland and upland areas were identified using methods prescribed in the "Federal Manual for Identifying and Delineating Jurisdictional Wetlands" (Federal Interagency Committee for Wetland Delineation, 1989). The Disturbed Area Wetland Determination Method was used, with the hydrophytic vegetation assessment taking the lead. Sampling tube cores were used to examine the soil profile for hydric soils and wetland hydrology. An assessment of hydrophytic vegetation was made at each sampling tube core. The following equipment was used: soil sampling tube, dead blow hammer, site map, field notebook, Munsell Soil Color Charts, flagging tape, wooden lathe, camera, plastic bags, field guides for plant identification, USGS topographic map, Hydric Soils of the United States List, and an aerial photograph.



#### Wetland Hydrology

Wetland hydrology is defined as permanent or periodic inundation or prolonged soil saturation sufficient to create anaerobic conditions in the soil. The wetland hydrology criterion is met if a site is inundated or saturated to within 1.5 feet below the surface, based on the soil drainage characteristics, for at least one consecutive week during the growing season in an average rainfall year (Federal Interagency Committee for Wetland Delineation, 1989). This criterion is the least exact and the most difficult to assess in the field.

#### Hydric Soil

Hydric soils are defined as soils that are saturated, flooded or ponded long enough during the growing season to develop anaerobic conditions in the upper part (U.S.D.A. Soil Conservation Service, 1987). An area has hydric soils when the National Technical Committee for Hydric Soils criteria are met. These criteria relate to soil types, soil drainage characteristics, water table levels and frequency of flooding or ponding.

### Hydrophytic Vegetation

Hydrophytic, or wetland, vegetation is defined as macrophytic plant life growing in water, soil or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content (Federal Interagency Committee for Wetland Delineation, 1989). The U.S. Fish and Wildlife Service publishes a list of plant species that occur in wetlands by region. Each species in the list is given an indicator status reflecting the range of estimated probability that it may occur in a wetland versus non-wetland area across its entire distribution. These indicator categories are listed below:

- Obligate Wetland (OBL). Occur almost always (estimated probability >99%) under natural conditions in wetlands.
- Facultative Wetland (FACW). Usually occur in wetlands (estimated probability 67%-99%), but occasionally found in non-wetlands.
- Facultative (FAC). Equally likely to occur in wetlands or non-wetlands (estimated probability 34%-66%).
- Facultative Upland (FACU). Usually occur in non-wetlands (estimated probability 67%-99%), but occasionally found in wetlands (estimated probability (1%-33%).
- Obligate Upland (UPL). Occur in wetlands in another region, but occur almost always (estimated probability >99%) under natural conditions in non-wetlands in the region specified. If a species does not occur in wetlands in any region, it is not on the National List.

The hydrophytic vegetation criterion for wetland identification is met when more than 50 percent of the dominant species at a given site are obligate, facultative wetland or facultative species.

#### <u>Deviations</u>

The three suspected wetland areas were renamed in the field. The Northwest Wetland Area was divided into Area I and Area II. The Gravel Pit Wetland was designated Area III. The Wetland Remnant was designated Area V. An area immediately south of the gravel pit was designated Area IV. This area was added to the field investigation based on visual observations. The study areas are shown on Figure 1.

#### Summary of Results

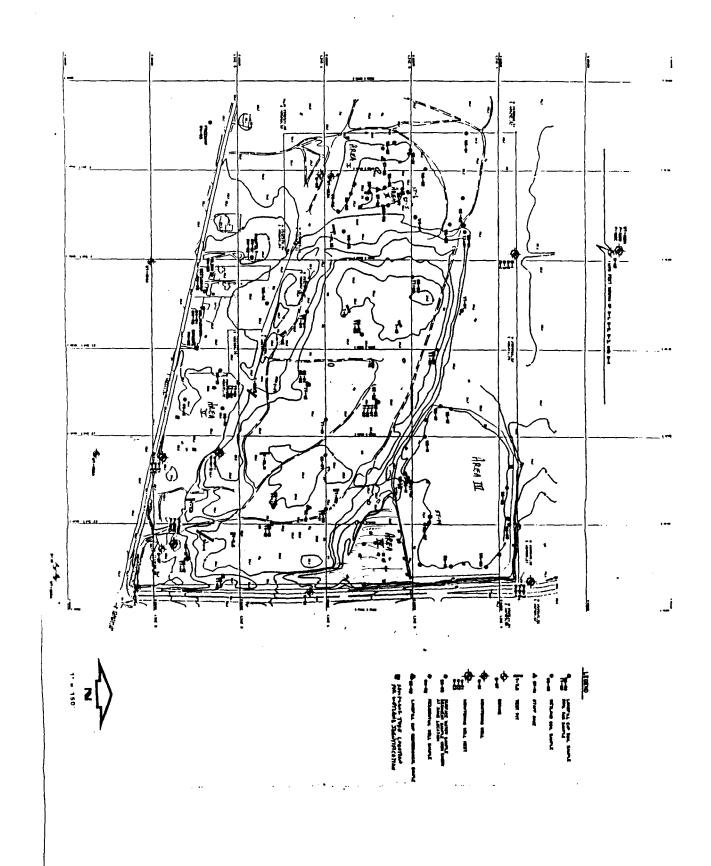
Sampling tube cores were used to examine the soil profile for hydric soils and wetland hydrology. A total of thirty-nine sites were chosen for soil sampling, representing the various conditions on the site. The vegetation was sampled at these 39 sites. Some of the plant species were not identified in the field but were collected, tagged, and identified off-site. Field work was conducted in late autumn, making identification difficult. The locations for the 39 sites are shown on Figure 1.

The only area identified as a wetland was Area IV. All of the other locations were non-wetland based on existing normal conditions or due to fill materials that were placed in close proximity to open water.

Hydrophytic vegetation identified in these wetland areas included: Typha angustifolia (Narrow-leaf Cattail-OBL), Carex sp. (Sedge sp.), Equisetum hyemale (Rough Horesetail-FACW), Solidago gigantea (Giant Goldenrod-FACW), Salix sp. (Willow sp.), Aster novae-angliae (New England Aster-FACW), and other Solidago sp. and Aster sp.

AK:11w

A/R/HIMCO/AB9



MAY 1991

FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA



#### TECHNICAL MEMORANDUM NUMBER 15

DATE: January 25, 1991

TO: Vanessa Harris - Site Manager

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

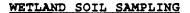
FROM: Tom Puchalski

Anya Kirykowicz

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump RI/FS



#### Introduction'

Sixteen soil samples were collected from three suspected wetland areas at the Himco Dump Site on October 21, 22, and 23, 1990; six from the Northwest Wetland Area, four from the Wetland Remnant, and six from the Gravel Pit Wetland Area (Figure 1). These soil samples were collected to investigate for possible soil contamination associated within these possible wetland areas. Sampling locations were selected to include what were suspected to be areas of most likely contamination. These areas included suspected wetland areas receiving drainage from the landfill cover as determined by aerial photography and field observations, and areas of apparent stressed vegetation. Soil samples were composited at each location from 0 to 18 inches or shallower where the auger met with refusal. Wetland soil sampling for chemical analysis was performed by Eric Slusser and Tom Puchalski of Donohue & Associates, Inc.

#### Methods

Section 4.6.4 of the Final Field Sampling Plan, Himco Dump RI/FS, Elkhart, Indiana, describes the wetlands soil sampling procedures. A hand auger was used to collect the sample at each location. After gathering soil to the required 18-inch depth, grab samples were retrieved from the sample bowl and put in 4-oz. glass jars for volatile analysis. These jars were filled with no head space remaining. The remaining soil was classified (USCS), the color identified using a Munsell Color Chart, and examined for obvious signs of contamination. This information was recorded on a soils data form (Appendix A). A stainless steel spoon was used to stir the remaining soil until a homogeneous mixture was obtained.



The hand auger, mixing spoon, and composite bowl were decontaminated between sampling points using an alconox and tap water wash, a tap water rinse, an isopropanol rinse, and two deionized or distilled water rinses. Isopropanol rinses were captured in a 5-gallon bucket and covered for eventual discharge into the on-site frac tank. A photograph was taken of each wetland soil sampling location.

#### Deviations

The sixteen sampling locations were selected prior to the wetland assessment and identification. Only one of the locations designated as a wetland sample (WS-#) was from a wetland location. WS-07 was located near ST-14 (sampling tube-14) of the wetland identification procedures. ST-14 met all three of the wetland criteria - hydric soil, hydrology and hydrophytic vegetation.

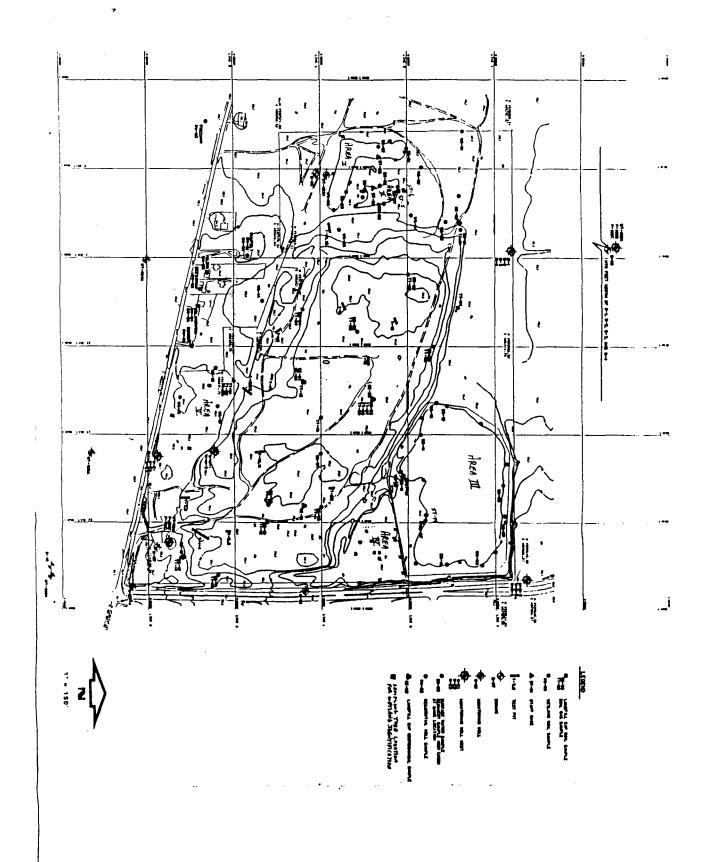
A stainless steel hand auger was used to collect the soil sample rather than a sampling tube as was described in the sampling plan. Besides being more labor intensive, a sampling tube does not collect sufficient soil volume to fill the required sample jars. Several pushes of the tubes would have been required at each sampling location. With the hand auger, sufficient sample volume was collected with one run from 0 to 18 inches.

#### Summary of Results

Sixteen soil samples for chemical analysis were collected in suspected wetland areas. Sample locations are provided in Figure 1. Wetland Soil Data forms are provided in Appendix A. A summary of wetland soil sampling locations, suspected wetland area, and materials encountered is provided in Appendix B.

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A/R/HIMCO/AB3



MAY 1991

FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA DONOTION ENGINEERS ARCHITECTS SCIENTISTS

APPENDIX A

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Engineers & Architect	s & Scientists Site Himon	Duran Project No. 2003
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<del></del>	RIC SLUSSER	
SAMPLE DEPTH	0-18"	
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DATE 10/23/08 TIME # 145. COLLECTOR TON ERV	5 PUCHASLI SUSSEZ	
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APPENDIX B

### APPENDIX B

WETLAND SOIL SAMPLE NUMBER	SUSPECTED WETLAND AREA LOCATION	SAMPLE CHARACTERISTICS
01	*	Dark grey silty sand. Moss at surface, roots to 3".
02	*	Light grey silty sand
03		Very dark grey silty sand. Refusal at gravel layer (6" below surface).
04	*	Grey silty sand; H <sub>2</sub> S odor.
05	*	Dark grey silty sand; $H_2S$ odor (refusal at 20").
06	I	Yellowish brown silty sand.
07	III	Very dark grey silty sand. Trace small shells; H <sub>2</sub> S odor.
08	III	Very dark grey silty sand. Trace small shells; H <sub>2</sub> S odor.
09	III	Brown gravelly sand.
10	III	brown fine grained sand.
11	III	Brown mixed with very dark grey silty sand $\mathrm{H}_2\mathrm{S}$ odor in grey areas.
12	III	Multi-colored gravel and fine sand.
13	v	Very dark greyish brown silty sand.
14	*	Dark yellowish brown silty sand.
15	v	Very dark greyish brown silty sand.
16	v	Very dark greyish brown silty sand.

<sup>\*</sup> Located outside of suspected wetland area

### TECHNICAL MEMORANDUM NUMBER 16

DATE: May 1, 1991

TO: Vanessa Harris, Site Manager

CC: Marcia Kuehl - RI Lead

Roman Gau - Project Manager

Mike Crosser - TSQAM

FROM: Anya Kirykowicz

SUBJECT: EPA ARCS Region V Contract No. 68-W8-0093

EPA Work Assignment No. 17-5L4J Donohue Project No. 20026.024

Himco Dump RI/FS

#### WATER LEVEL MEASUREMENTS

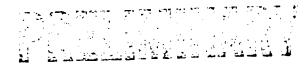
### Introduction

Water level and well depth measurements were taken at the Himco Dump Site on November 6, 1990, February 1, 1991 and February 2, 1991. Static water levels were measured and recorded to determine groundwater flow directions and gradients at the site (water table elevations map). Water level and well depth measurements were also taken after installation of new wells, before and after well development and during scheduled groundwater sampling. Information concerning those measurements may be found in the respective technical memorandums. Water level and well depth measurements were conducted by Rob Cannestra, Anya Kirykowicz and Tracey Koach of Donohue & Associates, Inc. Well locations are shown in Figure 1.

### Methods

Section 4.2.3.3 and Section 4.2.3.4 of the <u>Final Field Sampling Plan</u>, <u>Himco Dump RI/FS</u>, <u>Elkhart</u>, <u>Indiana</u>, described water level, well depth measurements and decontamination procedures. The water level surface was measured using poppers and electronic water level indicators. Each well had a reference point on top of the PVC well casing, from which water level measurements were taken. Measurements were noted to the nearest 0.01 feet. Each well was surveyed with respect to mean sea level elevation with an accuracy of 0.01 feet. Water level, well depth and staff gauge measurements were made within a 24-hour period.

The poppers and electric water level indicators were decontaminated between wells using an Alconox soap and tap water wash, tap water rinse, isopropanol rinse and two deionized or distilled water rinses. The isopropanol rinses were captured in a 5-gallon bucket and covered for discharge into the on-site frac tank.



### Deviations

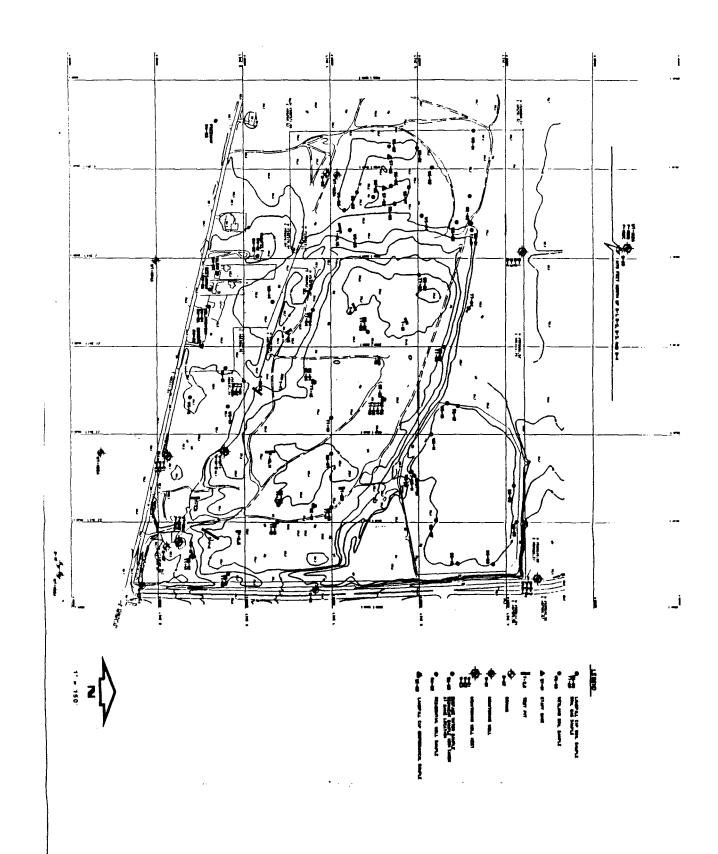
Distilled water rinses were used during decontamination procedures in addition to deionized water.

### Summary of Results

Water level measurement forms are attached.

AK:lh

A/R/HIMCO/ACO



MAY 1991

FIGURE 1 SITE LOCATION MAP (TECHNICAL MEMO)

HIMCO DUMP SUPERFUND SITE ELKHART, INDIANA



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Preliminary Report HIMCO Water Quality - Ground Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
HDWTF-1	5884E-61	13-DEC-90	Alkalinity, Total	78	mg/L	• •••••		*
HDWT 101A	5884E-13	28-NOV-90	Alkalinity, Total	510	mg/L	J		
HDWTM-2	5884E-29	03-DEC-90	Alkalinity, Total	490	mg/L			
HDWT1-3	5884E-37	04-DEC-90	Alkalinity, Total	480	mg/L			
HDWTQ-1	5884E - 19	29-NOV-90	Alkalinity, Total	460	mg/L			
HDWT 106A	5884E-76	08-JAN-91	Alkalinity, Total	450	mg/L	J		
HDFDWTP101B	5884E-78	09-JAN-91	Alkalinity, Total	440	mg/L	J		
HDWTP101B	5884E-80	09-JAN-91	Alkalinity, Total	430	mg/L	J		
HDWTE-2	5884E-55	12-DEC-90	Alkalinity, Total	43	mg/L	J		
HDWT 106A	5884E-01	27-NOV-90	Alkalinity, Total	420	<b>r</b> mg/L			
HDWT 104A	5884E-05	28-NOV-90	Alkalinity, Total	40	mg/L			
HDFDWT 104A	5884E-07	28-NOV-90	Alkalinity, Total	PRELIMING A.R. 253 240 230 210	mg/L			
HDWTE-3	5884E-57	12-DEC-90	Alkalinity, Total	W.L. P.S. L.	mg/L			
HDWTB-1	5884E-41	04-DEC-90	Alkalinity, Total	253	mg/L			
HDWTM-1	5884E-45	05-DEC-90	Alkalinity, Total	240	mg/L			
HDWTJ-3	5884E-49	10-DEC-90	Alkalinity, Total	230	mg/L			
HDWTF-3	5884E-59	13-DEC-90	Alkalinity, Total	210	mg/L			
HDWTG-3	5884E-63	13-DEC-90	Alkalinity, Total	200	mg/L			
HDWTJ-2	5884E-23	03-DEC-90	Alkalinity, Total	20.5	mg/L			
HDFBWTO-1	5884E-33	03-DEC-90	Alkalinity, Total	2.9	mg/L			
HDWTP102B	5884E-70	07-JAN-91	Alkalinity, Total	190	mg/L	J		
HDWTJ-1	5884E-39	04-DEC-90	Alkalinity, Total	190	mg/L			
HDWTP1020	5884E - 72	09-JAN-91	Alkalinity, Total	180	mg/L	J		
HDWTF-2	5884E-51	11-DEC-90	Alkalinity, Total	180	mg/L			•
HDWTG-1	5884E-43	04-DEC-90	Alkalinity, Total	180	mg/L			
HDWTO-1	5884E - 31	03-DEC-90	Alkalinity, Total	180	mg/L			
HDWT 10ZA	5884E-67	07-JAN-91	Alkalinity, Total	170	mg/L	J		
HDWT8-4	5884E-53	11-DEC-90	Alkalinity, Total	160	mg/L			
HDWT I - 1	5884E-65		Alkalinity, Total	160	mg/L			
HDWT I - 2	5884E - 17	29~NOV-90	Alkalinity, Total	150	mg/L			
HDWT 102A	5884E - 11	28-NOV-90	Alkalinity, Total	150	mg/L			

### Water Quality - Ground Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Nº mber	Date	Chemical Name	Concent,	Units	Qual.	of Sample	of Sample
HDWTB-3	5884E-47	05-DEC-90	Alkalinity, Total	150	mg/L			
HDWT 105A	5884E-74	08-JAN-91	Alkalinity, Total	140	mg/L	J		
HDWTN-1	5884E-21	29-NOV-90	Alkalinity, Total	140	mg/L			
HDWT 105A	5884E-03	29-NOV-90	Alkalinity, Total	140	mg/L			
HDWT 103A	5884E-09	28-NOV-90	Alkalinity, Total	130	mg/L			
HDWTCP-1	5884E-25	03-DEC-90	Alkalinity, Total	120	mg/L			
HDFDCP-1	5884E-27	03-DEC-90	Alkalinity, Total	120	mg/L			
HDWTB-2	5884E-35	04-DEC-90	* *	110	mg/L			
HDWTM-2	5884E-30	03-DEC-90	Bromide, Dissolved	3.5	mg/L			
HDWT1-3	5884E-38	04-DEC-90	Bromide, Dissolved	2.2	mg/L			
HDWTE-3	5884E-58	12-DEC-90	Bromide, Dissolved	1.9	mg/L			
HDWTQ-1	5884E-20	29-NOV-90	Bromide, Dissolved	1.1	mg/L			
HDWT 101A	5884E-14	28-NOV-90	Bromide, Dissolved			V		
HDWTP101C	5884E-81	09-JAN-91	Bromide, Dissolved	0.9	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	. *		
HDWT 106A	5884E-02	27-NOV-90	Bromide, Dissolved	PRELIMIT	And/L			
HDWT 106A	5884E-75	08-JAN-91	Bromide, Dissolved	L. LVT B. OF	mg/L			
HDFDWTP101B	5884E-77	09-JAN-91	Bromide, Dissolved	DE. GILL	mg/L			
HDWTP101B	5884E-79	09-JAN-91	Bromide, Dissolved	DK110.4	mg/L			
HDWTF-2	5884E-52	11-DEC-90	Bromide, Dissolved	0.3	mg/L			
HDWTE-2	5884E-56	12-DEC-90	Bromide, Dissolved	0.2	mg/L			
HDWTP102B	5884E-69	07-JAN-91	Bromide, Dissolved	0.2	mg/L		•	
HDWTM-1	5884E-46	05-DEC-90	Bromide, Dissolved	0.2	mg/L			
HDWTF-3	5884E-60	13-DEC-90	Bromide, Dissolved	0.2	mg/L			
HDWTF-1	5884E-62	13-DEC-90	Bromide, Dissolved	0.2	mg/L			
HDWTJ-2	5884E - 24	03-DEC-90	Bromide, Dissolved	0.2	mg/L			
HDWTB-1	5884E-42	04-DEC-90	•	0.2	mg/L			
HDWTJ-1	5884E-40	04-DEC-90	•	0.2	mg/L			
HDWT 105A	5884E-04	29-NOV-90	*	0.2	mg/L			
HDWTG-3	5884E-64	13-DEC-90	Bromide, Dissolved	0.1	mg/L			
HDWTP102C	5884E-71	09-JAN-91	Bromide, Dissolved	0.1	mg/L			
HDWT 102A	5884E-68	07-JAN-91	•	0.1	mg/L			

Preliminary Report HIMCO Water Quality - Ground Water

HDFDCP-1   5884E-28	Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
HDWT1-2	Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
HDWT1-2	• • • • • • • • • • • • • • • • • • • •				• • • • • • • • • • • • • • • • • • • •				
HDWTJ-3 5884E-50 10-DEC-90 Bromide, Dissolved 0.1 mg/L HDWT106A 5884E-66 08-JAN-91 COO 6.2 mg/L J HDWTI-1 5884E-65 13-DEC-90 COO 15 mg/L J HDWTF-1 5884E-61 13-DEC-90 COO 14 mg/L J HDWTF-2 5884E-55 12-DEC-90 Chloride, Cl 45.0 mg/L J HDWTF-2 5884E-35 29-NOV-90 Chloride, Cl 9.9 mg/L HDWTJ-1 5884E-39 04-DEC-90 Chloride, Cl 72 mg/L J HDWTP102B 5884E-70 07-JAN-91 Chloride, Cl 70 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTD-105A 5884E-74 08-JAN-91 Chloride, Cl 72 mg/L J HDWTD-1 5884E-75 12-DEC-90 Chloride, Cl 72 mg/L J HDWTD-1 5884E-75 12-DEC-90 Chloride, Cl 74 mg/L J HDWTD-1 5884E-75 12-DEC-90 Chloride, Cl 74 mg/L J HDWTD-101B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWTD-101B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWT101A 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWT101B 5884E-76 08-JAN-91 Chloride, Cl 29 mg/L J	HDFDCP-1	5884E - 28	03-DEC-90	Bromide, Dissolved	0.1	mg/L			
HDWT1-06A 5884E-76 08-JAN-91 COD 6.2 mg/L J HDWTI-1 5884E-65 13-DEC-90 COD 15 mg/L J HDWTF-1 5884E-61 13-DEC-90 COD 14 mg/L J HDWTF-2 5884E-51 11-DEC-90 Chloride, Cl HDWTF-2 5884E-55 12-DEC-90 Chloride, Cl HDWT-2 5884E-39 04-DEC-90 Chloride, Cl HDWT-1 5884E-39 04-DEC-90 Chloride, Cl HDWT-1 5884E-70 07-JAN-91 Chloride, Cl HDWT-1 5884E-61 13-DEC-90 Chloride, Cl HDWT-1 5884E-61 13-DEC-90 Chloride, Cl HDWT-1 5884E-65 13-DEC-90 Chloride, Cl HDWT-1 5884E-65 13-DEC-90 Chloride, Cl HDWT-1 5884E-55 04-DEC-90 Chloride, Cl HDWT-1 5884E-74 08-JAN-91 Chloride, Cl HDWT-1 5884E-74 08-JAN-91 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-74 08-JAN-91 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-74 08-JAN-91 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-1 5884E-75 12-DEC-90 Chloride, Cl HDWT-101B 5884E-78 09-JAN-91 Chloride, Cl HDWT-101B 5884E-78 09-JAN-91 Chloride, Cl HDWT-101B 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl HDWT-1 5884E-76 09-JAN-91 Chloride, Cl	HDWT I -2	5884E-18	29-NOV-90	Bromide, Dissolved	0.1	mg/L			
HDWTI-1 5884E-65 13-DEC-90 COO 15 mg/L J HDWTF-1 5884E-61 13-DEC-90 COO 14 mg/L J HDWTF-2 5884E-51 11-DEC-90 Chloride, Cl 55.0 mg/L J HDWTE-2 5884E-55 12-DEC-90 Chloride, Cl 75.0 mg/L J HDWTD5A 5884E-39 04-DEC-90 Chloride, Cl 72 mg/L J HDWTD2B 5884E-70 07-JAN-91 Chloride, Cl 70 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 70 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 61 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 67 mg/L J HDWTB-2 5884E-65 13-DEC-90 Chloride, Cl 67 mg/L J HDWTD-2 5884E-70 04-DEC-90 Chloride, Cl 70 mg/L J HDWTB-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTB-1 5884E-65 13-DEC-90 Chloride, Cl 70 mg/L J HDWTD-1 5884E-74 08-JAN-91 Chloride, Cl 75.8 mg/L J HDWTD-1 5884E-19 29-NOV-90 Chloride, Cl 75.8 mg/L J HDWTD-1 5884E-19 29-NOV-90 Chloride, Cl 75.8 mg/L J HDWTD-1 5884E-13 28-NOV-90 Chloride, Cl 75 mg/L J HDWTD01B 5884E-13 28-NOV-90 Chloride, Cl 33 mg/L J HDDWTD01B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWTD10B 5884E-80 09-JAN-91 Chloride, Cl 33 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J	HDWTJ-3	5884E-50	10-DEC-90	Bromide, Dissolved	0.1	mg/L			
NDWIF-1	HDWT 106A	5884E-76	19-NAL-80	COD	6.2	mg/L	7		
HDWTF-2 5884E-55 12-DEC-90 Chloride, Cl	HDWT I - 1	5884E-65	13-DEC-90	COD	15	mg/L	J		
HDWTE-2 5884E-55 12-DEC-90 Chloride, Cl	HDWTF-1	5884E-61	13-DEC-90	COD	14	mg/L	J		
HDWT105A 5884E-03 29-NOV-90 Chloride, Cl 9.9 mg/L HDWTJ-1 5884E-39 04-DEC-90 Chloride, Cl 72 mg/L J HDWTP102B 5884E-70 07-JAN-91 Chloride, Cl 70 mg/L J HDWTB-1 5884E-41 04-DEC-90 Chloride, Cl 61 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 61 mg/L J HDWTI-1 5884E-65 13-DEC-90 Chloride, Cl mg/L J HDWTB-2 5884E-35 04-DEC-90 Chloride, Cl mg/L J HDWT105A 5884E-74 08-JAN-91 Chloride, Cl 5.8 mg/L J HDWTQ-1 5884E-19 29-NOV-90 Chloride, Cl 42 mg/L HDWTE-3 5884E-57 12-DEC-90 Chloride, Cl 40 mg/L J HDWTE-3 5884E-13 28-NOV-90 Chloride, Cl 40 mg/L J HDWT101A 5884E-13 28-NOV-90 Chloride, Cl 34 mg/L HDFDWTP101B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWTT105B 5884E-80 09-JAN-91 Chloride, Cl 33 mg/L J HDWTT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT106A 5884E-76 08-JAN-91 Chloride, Cl 29 mg/L J	HDWTF-2	5884E-51	11-DEC-90	Chloride, Cl	<5.0	mg/L	J		
HDWTJ-1 5884E-39 04-DEC-90 Chloride, Cl 72 mg/L J HDWTP102B 5884E-70 07-JAN-91 Chloride, Cl 70 mg/L J HDWTB-1 5884E-41 04-DEC-90 Chloride, Cl 61 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 61 mg/L J HDWTI-1 5884E-65 13-DEC-90 Chloride, Cl mg/L J HDWTB-2 5884E-35 04-DEC-90 Chloride, Cl mg/L J HDWT105A 5884E-74 08-JAN-91 Chloride, Cl 5.8 mg/L J HDWTQ-1 5884E-19 29-NOV-90 Chloride, Cl 42 mg/L HDWTE-3 5884E-57 12-DEC-90 Chloride, Cl 42 mg/L HDWT101A 5884E-13 28-NOV-90 Chloride, Cl 40 mg/L J HDWT101B 5884E-78 09-JAN-91 Chloride, Cl 34 mg/L HDWTP101B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWTP101B 5884E-80 09-JAN-91 Chloride, Cl 33 mg/L J HDWTI-3 5884E-80 09-JAN-91 Chloride, Cl 29 mg/L J HDWTI-3 5884E-76 08-JAN-91 Chloride, Cl 29 mg/L J	HDWTE-2	5884E-55	12-DEC-90	Chloride, Cl	<5.0	mg/L	J		
HDWTP102B 5884E-70 07-JAN-91 Chloride, Cl 70 mg/L J HDWTB-1 5884E-41 04-DEC-90 Chloride, Cl 61 mg/L J HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 61 mg/L J HDWTI-1 5884E-65 13-DEC-90 Chloride, Cl mg/L J HDWTB-2 5884E-35 04-DEC-90 Chloride, Cl mg/L J HDWT105A 5884E-74 08-JAN-91 Chloride, Cl 5.8 mg/L J HDWTQ-1 5884E-19 29-NOV-90 Chloride, Cl 42 mg/L HDWTE-3 5884E-57 12-DEC-90 Chloride, Cl 42 mg/L HDWT101A 5884E-13 28-NOV-90 Chloride, Cl 34 mg/L HDFDWTP101B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWTP101B 5884E-80 09-JAN-91 Chloride, Cl 33 mg/L J HDWTI-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWTI-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWTI-3 5884E-76 08-JAN-91 Chloride, Cl 27 mg/L J	HDWT 105A	5884E-03	29-NOV-90	Chloride, Cl	9.9	mg/L			
HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 61 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl mg/L J HDWTB-2 5884E-35 04-DEC-90 Chloride, Cl mg/L J HDWT105A 5884E-74 08-JAN-91 Chloride, Cl 5.8 mg/L J HDWTG-1 5884E-19 29-NOV-90 Chloride, Cl 42 mg/L HDWTE-3 5884E-57 12-DEC-90 Chloride, Cl 40 mg/L J HDWT101A 5884E-13 28-NOV-90 Chloride, Cl 40 mg/L HDFDWTP101B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWTP101B 5884E-80 09-JAN-91 Chloride, Cl 33 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT1-3 5884E-76 08-JAN-91 Chloride, Cl 27 mg/L J	HDWT J - 1	5884E-39	04-DEC-90	Chloride, Cl	72	∢ mg/L	J		
HDWTF-1 5884E-61 13-DEC-90 Chloride, Cl 61 mg/L J HDWTF-1 5884E-65 13-DEC-90 Chloride, Cl mg/L J HDWTB-2 5884E-35 04-DEC-90 Chloride, Cl mg/L J HDWT 105A 5884E-74 08-JAN-91 Chloride, Cl 5.8 mg/L J HDWTG-1 5884E-19 29-NOV-90 Chloride, Cl 42 mg/L HDWTE-3 5884E-57 12-DEC-90 Chloride, Cl 40 mg/L J HDWT 101A 5884E-13 28-NOV-90 Chloride, Cl 40 mg/L J HDWT 101B 5884E-78 09-JAN-91 Chloride, Cl 33 mg/L J HDWT 101B 5884E-80 09-JAN-91 Chloride, Cl 33 mg/L J HDWT 1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT 1-3 5884E-37 04-DEC-90 Chloride, Cl 29 mg/L J HDWT 1-3 5884E-76 08-JAN-91 Chloride, Cl 29 mg/L J	HDWTP102B	5884E-70	07-JAN-91	Chloride, Cl	70	Ing/L	j		
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWTB-1	5884E-41	04-DEC-90	Chloride, Cl	61 4 3	_	J		
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWTF-1	5884E-61	13-DEC-90	Chloride, Cl	547 Kr.	mg/L	J		
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWT I - 1	5884E-65	13-DEC-90	Chloride, Cl	KNJ.	mg/L	J		
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWTB-2	5884E-35	04-DEC-90	Chloride, Cl	143.2	mg/L	J		
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWT 105A	5884E-74	08-JAN-91	Chloride, Cl	5.8	mg/L	J		
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWTQ-1	5884E-19	29-NOV-90	Chloride, Cl	42	mg/L			
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWTE-3	5884E-57	12-DEC-90	Chloride, Cl	40	mg/L	J		
HDFDWTP101B         5884E-78         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWTP101B         5884E-80         O9-JAN-91 Chloride, Cl         33 mg/L         J           HDWT1-3         5884E-37         O4-DEC-90 Chloride, Cl         29 mg/L         J           HDWT106A         5884E-76         O8-JAN-91 Chloride, Cl         27 mg/L         J	HDWT 101A	5884E - 13	28-NOV-90	Chloride, Cl	34	mg/L			
HDWT1-3       5884E-37       04-DEC-90 Chloride, Cl       29 mg/L       J         HDWT106A       5884E-76       08-JAN-91 Chloride, Cl       27 mg/L       J	HDFDWTP101B	5884E - 78	09-JAN-91			mg/L	J		
HDWT106A 5884E-76 08-JAN-91 Chloride, Cl 27 mg/L J	HDWTP101B	5884E-80	09-JAN-91	Chloride, Cl	33	mg/L	J		
HDWT106A 5884E-76 08-JAN-91 Chloride, Cl 27 mg/L J	HDWT I - 3	5884E-37	04-DEC-90	Chloride, Cl	29	mg/L	J		
	HDWT 106A	5884E-76	08-JAN-91		27	mg/L	J		
HDWTO-1 5884E-31 03-DEC-90 Chloride, Cl 260 mg/L J	HDWTO-1	5884E-31	03-DEC-90		260	mg/L	J		
HDWT106A 5884E-01 27-NOV-90 Chloride, Cl 24 mg/L	HDWT 106A	5884E-01	27-NOV-90	Chloride, Cl	24	mg/L			
HDWT103A 5884E-09 28-NOV-90 Chloride, Cl 22 mg/L	HDWT 103A	5884E-09	28-NOV-90	Chloride, Cl	22	mg/L			
HDWTP102C 5884E-72 09-JAN-91 Chloride, Cl 21 mg/L J		5884E - 72	09-JAN-91	Chloride, Cl	21	mg/L	J		
HDWTN-1 5884E-21 29-NOV-90 Chloride, Cl 2.9 mg/L									
HDWTM-2 5884E-29 03-DEC-90 Chloride, Cl 18 mg/L J	•			•		-	J		
HDWTG-1 5884E-43 04-DEC-90 Chloride, Cl 16 mg/L J				•	16	mg/L	J		
HDWTB-4 5884E-53 11-DEC-90 Chloride, Cl 16 mg/L J						•	J		

### Preliminary Report HIMCO Water Quality - Ground Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
HDWTF-3	5884E-59	13-DEC-90	Chloride, Cl	16	mg/L	J		
HDFDCP - 1	5884E-27		Chloride, Cl	. 15	mg/L	•		
HDWTJ-3	5884E-49		Chloride, Cl	15	mg/L	1		
HDWTCP-1	5884E-25		Chloride, Cl	15	mg/L	•		
HDWTJ-2	5884E - 23		Chloride, Cl	130	mg/L	j		
HDWT 102A	5884E-11		Chloride, Cl	120	mg/L	•		
HDWT1-2	5884E-17	29-NOV-90	•	12	mg/L			
HDFDWT 104A	5884E-07		Chloride, Cl	12	mg/L			
HDWT 104A	5884E-05	28-NOV-90	•	12	mg/L			
HDWTP101C	5884E-82	09-JAN-91	•	11	mg/L	j		
HDWT 102A	5884E-67	07-JAN-91	Chloride, Cl	100	mg/L	j		
HDFBWTO-1	5884E-33	03-DEC-90	Chloride, Cl	().	Ymg/L	7		
HDFBWT105A	5884E-15		Chloride, Cl	0-16	mg/L	J		
HDFDWTP101B	5884E-78	09-JAN-91	•	0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 Files 0.26 F	mg/L	-		
HDWTP1018	5884E-80	09-JAN-91	Nitrogen, Ammonia (NE	3)	mg/L			
HDWTM-1	5884E-45	05-DEC-90	- ·	3) 4.0	mg/L	J		
HDWTM-2	5884E - 29		Nitrogen, Ammonia (Ni	3) 30	mg/L	J		
HOWTN - 1	5884E-21	29-NOV-90	· •	3) <b>() ( 1 1 1 1 1 1 1 1 1 1</b>	mg/L	J		
HDWT1-3	5884E-37	04-DEC-90	Nitrogen, Ammonia (Ni		mg/L	J		
HDWT 101A	5884E-13		Nitrogen, Ammonia (N		mg/L	J		
HDWTQ-1	5884E-19		Nitrogen, Ammonia (Ni		mg/L	1		
HDWT 106A	5884E-76	08-JAN-91	Nitrogen, Ammonia (NI	3) 14	mg/L			
HDWT 106A	5884E-01	27-NOV-90	Nitrogen, Ammonia (Ni	3) 14	mg/L	J		
HDWT 105A	5884E-03	29-NOV-90	Nitrogen, Ammonia (NI	3) 1.5	mg/L	J		
HDWT 104A	5884E-05	28-NOV-90	Nitrogen, Ammonia (Ni	3) 0.5	mg/L	J		
HDWTP101C	5884E-82	09-JAN-91	Nitrogen, Ammonia (Ni	3) 0.49	mg/L	J		
HDWTJ-3	5884E-49	10-DEC-90	Nitrogen, Ammonia (N	0.44	mg/L	J		
HDWTB-3	5884E-47	05-DEC-90	Nitrogen, Ammonia (N	0.40	mg/L	j		
HDWTCP-1	5884E - 25	03-DEC-90	Nitrogen, Ammonia (N	0.24	mg/L	J	ž.	
HDWT 102A	5884E - 67	07-JAN-91			mg/L	J		
HDWTB-1	5884E-41	04-DEC-90	Nitrogen, Ammonia (N	0.21	mg/L	J		

Preliminary Report HIMCO Water Quality - Ground Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual .	of Sample	of Sample
HDWTG-1	5884E-43	04-DEC-90	Nitrogen, Ammonia (NH3)	0.20	mg/L	 J		
HDWTF-2	5884E-51	11-DEC-90	Nitrogen, Ammonia (NH3)	0.19	mg/L	j		
HDWTF-3	5884E-59	13-DEC-90	Nitrogen, Ammonia (NH3)	0.18	mg/L	j		
HDWT I - 1	5884E-65	13-DEC-90	Nitrogen, Ammonia (NH3)	0.14	mg/L	J		
HDWTP102B	5884E-70	07-JAN-91	Nitrogen, Ammonia (NH3)	0.11	mg/L	J		
HDWTJ-1	5884E-39	04-DEC-90	Nitrogen, Ammonia (NH3)	0.11	mg/L	J		
HDWT 105A	5884E-74	08-JAN-91	Nitrogen, Ammonia (NH3)	0.11	mg/L	J		
HDWTP102C	5884E-72	09-JAN-91	Nitrogen, Ammonia (NH3)	0.10	mg/L	J		
HDWT 102A	5884E-67	07-JAN-91	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	6.9	mg/L	J		
HDWT 105A	5884E - 74	08-JAN-91	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	1.6	mg/L			
HDWTE-3	5884E-57	12-DEC-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.48	mg/L	J		
HDWTG-3	5884E-63	13-DEC-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.15	mg/L	J		
HDWT 106A	5884E-76	08-JAN-91	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.14	mg/L			
HDWTB-2	5884E-35	04-DEC-90	Sulfate, SO4	94	mg/L	J		
HDWTP101C	5884E-82	09-JAN-91	Sulfate, 504 PRELIN	TEPOT TO T	) <b>W</b> L	J		
HOWTJ-1	5884E-39	04-DEC-90	Sulfate, S04 Philip	バギエイ モブ1	<b>Linge</b> L	j		
HDWTJ-2	5884E-23	03-DEC-90	Sulfate, SO4	67	mg/L	J		
HDWTI-3	5884E-37	04-DEC-90	Sulfate, SO4	65	mg/L	J		
HOWTP102B	5884E-70	07-JAN-91	Sulfate, SO4	64 .	mg/L	J		
HDWTG-1	5884E-43	04-DEC-90	Sulfate, SO4	64	mg/L	j		
HDWTM-2	5884E-29	03-DEC-90	Sulfate, SO4	6	mg/L	J		
HDWT 106A	5884E-01	27-NOV-90	Sulfate, SO4	56	mg/L			
HDWT 106A	5884E-76	08-JAN-91	Sulfate, SO4	54	mg/L	J		
HDWT 104A	5884E - 05	28-NOV-90	Sulfate, SO4	5.9	mg/L			
HDFDWT104A	5884E-07	28-NOV-90	Sulfate, SO4	5.9	mg/L			
HDWT 102A	5884E-11	28-NOV-90	Sulfate, SO4	430	mg/L			
HDWTB-4	5884E-53	11-DEC-90	Sulfate, SO4	38	mg/L	J		
HDWT 102A	5884E-67	07-JAN-91	Sulfate, SO4	360	mg/L	J		
HDWTP102C	5884E-72	09-JAN-91	Sulfate, SO4	35	mg/L	J		
HDWT1-2	5884E-17	29-NOV-90	Sulfate, SO4	33	mg/L			
HDWT 105A	5884E-03	29-NOV-90	) Sulfate, SO4	30	mg/L			

### Preliminary Report HIMCO Water Quality - Ground Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
HOWTN-1	5884E-21	29-NOV-90	Sulfate, S04	25				*************
HDWT 105A	5884E-74		Sulfate, S04	22	mg/L mg/L	J		
HDWTCP-1	5884E-25		Sulfate, 504	190	-	•		
HDFDCP-1	5884E-27		Sulfate, 504	190	mg/L			
HDWTF-2	5884E-51		Sulfate, S04	18	mg/L mg/L	j		
HDWT103A	5884E-09		Sulfate, S04	170	_	J		
HDWTQ-1	5884E-19		Sulfate, S04	160	mg/L			
			•		mg/L			
HDWT 101A	5884E - 13		Sulfate, 504	150	mg/L			
HDWTF-1	5884E-61		Sulfate, SO4	15	mg/L	J		
HDFDWTP101B	5884E-78		Sulfate, S04	140	mg/L	J		
HDWTP101B	5884E-80		Sulfate, 504	140	mg/L	J		
HDWTO-1	5884E-31		Sulfate, S04	140	mg/L	J		
HDWTE-2	5884E - 55		Sulfate, 504	13	mg/L	J		
HDWTE-3	5884E-57		Sulfate, SO4	110	mg/	j		
HDWTJ-2	5884E-23	03-DEC-90	TDS (Total Dissolved Solids)	940 TT IN	<b>人他</b> 人	J		
HDWT102A	5884E-11	28-NOV-90	TDS (Total Dissolved Solids)	IDMINITAL)	-Ing/L	j		
HDWTB-3	5884E - 47	05-DEC-90	TDS (Total Dissolved Solids)	17840	mg/L	J		
HDWT 102A	5884E-67	07-JAN-91	TDS (Total Dissolved Solids)	820	mg/L	J		
HDWTP101C	5884E - 82	09-JAN-91	TDS (Total Dissolved Solids)	790	mg/L	· J		
HDWTM-1	5884E-45	05-DEC-90	TDS (Total Dissolved Solids)	750	mg/L	J		
HDWTQ-1	5884E - 19	29-NOV-90	TDS (Total Dissolved Solids)	620	mg/L	J		
HOWTP101B	5884E-80	09-JAN-91	TDS (Total Dissolved Solids)	610	mg/L	J		
HDWT 1 - 3	5884E-37	04-DEC-90	TDS (Total Dissolved Solids)	610	mg/L	J		
HDFDWTP101B	5884E - 78	09-JAN-91	TDS (Total Dissolved Solids)	600	mg/L	J		
HDWT 106A	5884E - 76	08-JAN-91	TDS (Total Dissolved Solids)	480	mg/L	J		
HDWTE-3	5884E-57	12-DEC-90	TDS (Total Dissolved Solids)	480	mg/L	J		
HDWT 106A	5884E-01	27-NOV-90	TDS (Total Dissolved Solids)	450	mg/L	J	÷	
HDWTM-2	5884E-29	03-DEC-90	TDS (Total Dissolved Solids)	450	mg/L	j		
HDWTJ-1	5884E-39	04-DEC-90	TDS (Total Dissolved Solids)	430	mg/L	J		
HDWT1-2	5884E - 17	29-NOV-90	TDS (fotal Dissolved Solids)	430	mg/L	J		
HDWT 103A	5884E-09	28-NOV-90	TDS (Total Dissolved Solids)	420	mg/L	J		

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Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
HDWTO-1	5884E-31	03-DEC-90	TDS (Total Dissolved Solids)	410	mg/L	 J		***************************************
HDWT 101A	5884E - 13	28-NOV-90	TDS (Total Dissolved Solids)	400	mg/L	J		
HDWT 105A	5884E-03	29-NOV-90	TDS (Total Dissolved Solids)	370	mg/L	J		
HDWTP102B	5884E-70	07-JAN-91	TDS (Total Dissolved Solids)	370	mg/L	J		
HDWTB-1	5884E-41	04-DEC-90	TDS (Total Dissolved Solids)	360	mg/L	J		
HDWTB-2	5884E-35	04-DEC-90	TDS (Total Dissolved Solids)	330	mg/L	J		
HDFBWTO-1	5884E-33	03-DEC-90	TDS (Total Dissolved Solids)	33	mg/L	J		
HDWTG-1	5884E-43	04-DEC-90	TDS (Total Dissolved Solids)	320	mg/L	J		
HDWTG-3	5884E-63	13-DEC-90	TDS (Total Dissolved Solids)	280	mg/L	J		
HDWTP102C	5884E-72	09-JAN-91	TDS (Total Dissolved Solids)	250	mg/L	J		
HDWTB-4	5884E-53	11-DEC-90	TDS (Total Dissolved Solids)	250	mg/L	J		
HDWTF-3	5884E-59	13-DEC-90	TDS (Total Dissolved Solids)	240	mg/L	J		
HDWTJ-3	5884E-49	10-DEC-90	TDS (Total Dissolved Solids)	240	mg/L	J		
HDWTF-2	5884E-51	11-DEC-90	TDS (Total Dissolved Solids)	230	mg/L	J		
HDWT1-1	5884E-65	13-DEC-90	TDS (Total Dissolved Solids)	230	mg/L	J		
HDWTN-1	5884E-21	29-NOV-90	TDS (Total Dissolved Solids)	200	mg/L	J		
HDWT 105A	5884E - 74	08-JAN-91	TDS (Total Dissolved Solids)	170	mg/L	J		
HDWTE-2	5884E-55	12-DEC-90	TDS (Total Dissolved Solids)	160	mg/L	j		
HDWTCP-1	5884E-25	03-DEC-90	TDS (Total Dissolved Solids)	1500	mg/L	j		
HD FDWT 104A	5884E-07	28-NOV-90	TDS (Total Dissolved Solids)	150	mg/L	ما.		
HDFDCP-1	5884E-27	03-DEC-90	TDS (Total Dissolved Solids)	1300		<b>Pc</b>		
HDWTF-1	5884E-61	13-DEC-90	TDS (Total Dissolved Solids)	PEE POITMI	TAK	ቤታ		
HDWT 104A	5884E - 05	28-NOV-90	TDS (Total Dissolved Solids)	-1720 TWL	LL mg/L	J		
HDFBWT105A	5884E - 15	29-NOV-90	TDS (Total Dissolved Solids)	D. Fright	mg/L	J		
HDWT 106A	5884E-01	27-NOV-90	TKN (Total Kjeldahl Nitrogen)	9.1	mg/L	J		
HDWTM-2	5884E - 29	03-DEC-90	TKN (Total Kjeldahl Nitrogen)	41	mg/L	J		
HDWTM-1	5884E-45	05-DEC-90	TKN (Total Kjeldahl Nitrogen)	4.8	mg/L	J		
HDFDWTP101B	5884E-78	09-JAN-91	TKN (Total Kjeldahl Nitrogen)	4.4	mg/L	J		
HDWTP101B	5884E-80	09-JAN-91		3.9	mg/L	J		
HDWTN-1	5884E-21	29-NOV-90	TKN (Total Kjeldahl Nitrogen)	3.6	mg/L	j		
HDWT1-3	5884E-37	04-DEC-90	TKN (Total Kjeldahl Nitrogen)	2.3	mg/L	J		

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Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to b	ottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of s	Sample
HDFDCP-1	5884E-27	03-DEC-90	TKN (Total Kjeldahl Nitrogen)	2.2	mg/L	J			
HDWT 101A	5884E - 13	28-NOV-90	TKN (Total Kjeldahl Nitrogen)	17	mg/L	J			
HDWTQ-1	5884E-19	29-NOV-90	TKN (Total Kjeldahl Nitrogen)	17	mg/L	J			
HDWT 106A	5884E-76	08-JAN-91	TKN (Total Kjeldahl Nitrogen)	14	mg/L	J			
HDFBWT 105A	5884E-15	29-NOV-90	TKN (Total Kjeldahl Nitrogen)	1.6	mg/L	J			
HDWTB-2	5884E-35	04-DEC-90	TKN (Total Kjeldahl Nitrogen)	1.2	mg/L	J			
HDWTP102B	5884E-70	07-JAN-91	TKN (Total Kjeldahl Nitrogen)	1.0	mg/L	J			
HDWTG-1	5884E-43	04-DEC-90	TKN (Total Kjeldahl Nitrogen)	0.88	mg/L	J			
HDWT 105A	5884E-74	08-JAN-91	TKN (Total Kjeldahl Nitrogen)	0.85	mg/L	J			
HDWT1-2	5884E-17	29-NOV-90	TKN (Total Kjeldahi Nitrogen)	0.8	mg/L	J			
HDWTP101C	5884E-82	09-JAN-91	TKN (Total Kjeldahl Nitrogen)	0.79	mg/L	J			
HDFDWT 104A	5884E-07	28-NOV-90	TKN (Total Kjeldahl Nitrogen)	0.72	mg/L	J			
HDFBWTO-1	5884E-33	03-DEC-90	TKN (Total Kjeldahl Nitrogen)	0.58	mg/L	J			
HDWTB-1	5884E-41	04-DEC-90	TKN (Total Kjeldahl Nitrogen)	0.55	mg/L	J			
HDWT 105A	5884E-03	29-NOV-90	TKN (Total Kjeldahl Nitrogen)	0.49	mg/L	J			
HDWTCP-1	5884E-25	03-DEC-90	TKN (Total Kjeldahl Nitrogen)	0.33	mg/L	J			
HDWTP102C	5884E-72	09-JAN-91	TKN (Total Kjeldahl Nitrogen)	0.28	mg/L	J			
HDWT 102A	5884E-67	07-JAN-91	TKN (Total Kjeldahl Nitrogen)	0.27	mg/L	_ J			
HDWT 104A	5884E-05	28-NOV-90	TKN (Total Kjeldahl Nitrogen)	0.26	19/T) T	<b>7</b> J			
HDWTJ-1	5884E-39	04-DEC-90	TKN (Total Kjeldahl Nitrogen)	CTT 55.4	MAIL.	₽ j			
HDWTO-1	5884E-31	03-DEC-90	TKN (Total Kjeldahl Nitrogen)		mg/L	J			
HDWT 102A	5884E - 11	28-NOV-90	TKN (Total Kjeldahl Nitrogen)	0.18	mg/L	J			
HDWTB-3	5884E-47	05-DEC-90	TKN (Total Kjeldahl Nitrogen)	0.15	mg/L	J			
HDWT 103A	5884E-09	28-NOV-90	TKN (Total Kjeldahl Nitrogen)	0.12	mg/L	J			
HDWTJ-2	5884E - 23	03-DEC-90	TP (Total Phosphorus)	0.40	mg/L	J			
HDWTG-3	5884E-63	13-DEC-90	TP (Total Phosphorus)	0.32	mg/L	J			
HDWTF-3	5884E-59	13-DEC-90	TP (Total Phosphorus)	0.30	mg/L	J			
HDWTM-2	5884E - 29	03-DEC-90	TP (Total Phosphorus)	0.27	mg/L	J			
HDWT 102A	5884E - 11	28-NOV-90	TP (Total Phosphorus)	0.27	mg/L	J			
HDWT 104A	5884E-05	28-NOV-90	TP (Total Phosphorus)	0.23	mg/L	J			
HDWTQ-1	5884E - 19	29-NOV-90	TP (Total Phosphorus)	0.23	mg/L	J			

Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   Number   N	Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
HOVITN-1	Number	Number	Date	Chemical Name	Concent.	Units	Qual .	of Sample	of Sample
HOVITN-1		•						***********	
NDFDVT104A   5884E-07   28-NOV-90 TP (Total Phosphorus)   0.19 mg/L J	HDWT 101A	5884E - 13	28-NOV-90	TP (Total Phosphorus)	0.21	mg/L	J		
NDWIT105A   5884E-33   29-NOV-90   TP (Total Phosphorus)   0.19   mg/L   J	HDWTN-1	5884E-21	29-NOV-90	TP (Total Phosphorus)	0.19	mg/L	J		
NDWIJ-1	HDFDWT 104A	5884E-07	28-NOV-90	TP (Total Phosphorus)	0.19	mg/L	J		
NOWTI-2   5884E-17   29-NOV-90   TP (Total Phosphorus)   0.15   mg/L   J	HDWT 105A	5884E-03	29-NOV-90	TP (Total Phosphorus)	0.19	mg/L	J		
HOWITO   S884E-35   04-DEC-90   TP (Total Phosphorus)   0.12   mg/L   J	HDWT J - 1	5884E-39	04-DEC-90	TP (Total Phosphorus)	0.17	mg/l	j		
HDWT103A   5884E-09   28-NOV-90   TP (Total Phosphorus)   0.09   mg/L   J	HDWT1-2	5884E - 17	29-NOV-90	TP (Total Phosphorus)	0.15	mg/L	J		
HDWTB-2   5884E-35	HDWTB-2	5884E-35	04-DEC-90	TP (Total Phosphorus)	0.12	mg/L	J		
### HDWTG-1   5884E-43   04-DEC-90   TSS (Total Suspended Solids)   9.0   mg/L   J   #### HDWTM-1   5884E-45   05-DEC-90   TSS (Total Suspended Solids)   8.0   mg/L   J   #### HDWTM-1   5884E-82   09-JAN-91   TSS (Total Suspended Solids)   62   mg/L   J   #### HDWTM-2   5884E-82   09-JAN-91   TSS (Total Suspended Solids)   6.0   mg/L   J   #### HDWTM-1   5884E-61   13-DEC-90   TSS (Total Suspended Solids)   6.0   mg/L   J   #### HDWT104A   5884E-61   13-DEC-90   TSS (Total Suspended Solids)   5.0   mg/L   J   #### HDWT1-2   5884E-17   29-NOV-90   TSS (Total Suspended Solids)   5.0   mg/L   J   #### HDWTP101B   5884E-80   09-JAN-91   TSS (Total Suspended Solids)   36   mg/L   J   #### HDWTH-2   5884E-75   12-DEC-90   TSS (Total Suspended Solids)   350   mg/L   J   #### HDWTN-1   5884E-78   09-JAN-91   TSS (Total Suspended Solids)   32.0   mg/L   J   #### HDWTN-1   5884E-21   29-NOV-90   TSS (Total Suspended Solids)   3.0   mg/L   J   #### HDWTN-1   5884E-21   29-NOV-90   TSS (Total Suspended Solids)   3.0   mg/L   J   #### HDWTN-1   5884E-27   03-DEC-90   TSS (Total Suspended Solids)   3.0   mg/L   J   #### HDWTN-3   5884E-75   03-DEC-90   TSS (Total Suspended Solids)   3.0   mg/L   J   #### HDWTN-3   5884E-63   13-DEC-90   TSS (Total Suspended Solids)   3.0   mg/L   J   #### HDWTN-3   5884E-63   13-DEC-90   TSS (Total Suspended Solids)   18   mg/L   J   #### HDWTN-3   5884E-63   13-DEC-90   TSS (Total Suspended Solids)   17   mg/L   J   #### HDWTN-4   5884E-63   13-DEC-90   TSS (Total Suspended Solids)   15   mg/L   J   #### HDWTN-4   5884E-63   11-DEC-90   TSS (Total Suspended Solids)   15   mg/L   J   #### HDWTN-4   5884E-63   11-DEC-90   TSS (Total Suspended Solids)   12   mg/L   J   #### HDWTN-4   5884E-63   11-DEC-90   TSS (Total Suspended Solids)   12   mg/L   J   #### HDWTN-4   5884E-63   11-DEC-90   TSS (Total Suspended Solids)   110   mg/L   J   #### HDWTN-4   5884E-63   11-DEC-90   TSS (Total Suspended Solids)   110   mg/L   J   ##### HDWTN-3   5884E-63   11-DEC-90   TSS (Total Suspended Solids)   110	HDWT 103A	5884E-09	28-NOV-90	TP (Total Phosphorus)	0.09	mg/L	J		
HDWTM-1	HDWTB-2	5884E-35	04-DEC-90	TSS (Total Suspended Solids)	9.0	mg/L	J		
HDWTP101C   5884E-82   O9-JAN-91   TSS (Total Suspended Solids)   62   mg/L   J	HDWTG-1	5884E-43	04-DEC-90	TSS (Total Suspended Solids)	9.0	mg/L	j		
HDWTM-2 5884E-29 03-DEC-90 TSS (Total Suspended Solids) 6.0 mg/L J HDWTF-1 5884E-61 13-DEC-90 TSS (Total Suspended Solids) 6.0 mg/L J HDWT104A 5884E-05 28-NOV-90 TSS (Total Suspended Solids) 5.0 mg/L J HDWT1-2 5884E-17 29-NOV-90 TSS (Total Suspended Solids) 4.0 mg/L J HDWT1-101B 5884E-80 09-JAN-91 TSS (Total Suspended Solids) 36 mg/L J HDWT1-101B 5884E-75 12-DEC-90 TSS (Total Suspended Solids) 350 mg/L J HDWTD101B 5884E-78 09-JAN-91 TSS (Total Suspended Solids) 32.0 mg/L J HDWTN-1 5884E-21 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWT106A 5884E-01 27-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFDCP-1 5884E-27 03-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFDCP-1 5884E-59 13-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTB-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTB-1 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 18 mg/L J HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 17 mg/L J HDWTG-3 5884E-57 08-JAN-91 TSS (Total Suspended Solids) 15 mg/L J HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) 15 mg/L J HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) 12 mg/L J HDWTB-3 5884E-55 12-DEC-90 TSS (Total Suspended Solids) 12 mg/L J HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) 12 mg/L J HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) 12 mg/L J	HDWTM-1	5884E-45	05-DEC-90	TSS (Total Suspended Solids)	8.0	mg/L	J		
HDWTF-1	HDWTP101C	5884E-82	09-JAN-91	TSS (Total Suspended Solids)	62	mg/L	J		
### HDWT104A	HDWTM-2	5884E-29	03-DEC-90	TSS (Total Suspended Solids)	6.0	mg/L	J		
HDWT1-2 5884E-17 29-NOV-90 TSS (Total Suspended Solids) 4.0 mg/L J HDWTP101B 5884E-80 09-JAN-91 TSS (Total Suspended Solids) 36 mg/L J HDWTE-2 5884E-55 12-DEC-90 TSS (Total Suspended Solids) 350 mg/L J HDFDWTP101B 5884E-78 09-JAN-91 TSS (Total Suspended Solids) 32.0 mg/L J HDWTN-1 5884E-21 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWT106A 5884E-01 27-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFDCP-1 5884E-27 03-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFBWT105A 5884E-15 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTB-1 5884E-49 10-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 18 mg/L J HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 17 mg/L J HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) 15 mg/L J HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) 12 mg/L J HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) 110 mg/L J	HDWTF-1	5884E-61	13-DEC-90	TSS (Total Suspended Solids)	6.0	mg/L	J		
HDWTP101B 5884E-80 09-JAN-91 TSS (Total Suspended Solids) 36 mg/L J HDWTE-2 5884E-55 12-DEC-90 TSS (Total Suspended Solids) 350 mg/L J HDFDWTP101B 5884E-78 09-JAN-91 TSS (Total Suspended Solids) 32.0 mg/L J HDWTN-1 5884E-21 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWT106A 5884E-01 27-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFDCP-1 5884E-27 03-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFBWT105A 5884E-15 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) 18 mg/L J HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 17 mg/L J HDWTG-3 5884E-76 08-JAN-91 TSS (Total Suspended Solids) 15 mg/L J HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) 12 mg/L J HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) 12 mg/L J	HDWT 104A	5884E-05	28-NOV-90	TSS (Total Suspended Solids)	5.0	mg/L	j		
HDVTE-2 5884E-55 12-DEC-90 TSS (Total Suspended Solids) 350 mg/L J HDFDWTP101B 5884E-78 09-JAN-91 TSS (Total Suspended Solids) 32.0 mg/L J HDWTN-1 5884E-21 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWT106A 5884E-01 27-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFDCP-1 5884E-27 03-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFBWT105A 5884E-15 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) 18 mg/L J HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 18 mg/L J HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 17 mg/L J HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) 12 mg/L J HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) 110 mg/L J	HDWT1-2	5884E - 17	29-NOV-90	TSS (Total Suspended Solids)	4.0	mg/L	J		
HDFDWTP101B 5884E-78 09-JAN-91 TSS (Total Suspended Solids) 32.0 mg/L J HDWTN-1 5884E-21 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWT106A 5884E-01 27-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFDCP-1 5884E-27 03-DEC-90 TSS (Total Suspended Solids) HDFDCP-1 5884E-15 29-NOV-90 TSS (Total Suspended Solids) HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-76 08-JAN-91 TSS (Total Suspended Solids) HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids)	HDWTP101B	5884E-80	09-JAN-91	TSS (Total Suspended Solids)	36	mg/L	J		
HDWTN-1 5884E-21 29-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDWT106A 5884E-01 27-NOV-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFDCP-1 5884E-27 03-DEC-90 TSS (Total Suspended Solids) 3.0 mg/L J HDFBWT105A 5884E-15 29-NOV-90 TSS (Total Suspended Solids) HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWT106A 5884E-76 08-JAN-91 TSS (Total Suspended Solids) HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTE-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids)	HDWTE-2	5884E-55	12-DEC-90	TSS (Total Suspended Solids)	350	mg/L	j		
### HDWT106A	HDFDWTP101B	5884E - 78	09-JAN-91	TSS (Total Suspended Solids)	32.0	mg/L	J		
HDFDCP-1 5884E-27 03-DEC-90 TSS (Total Suspended Solids) HDFBWT105A 5884E-15 29-NOV-90 TSS (Total Suspended Solids) HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTG-4 5884E-76 08-JAN-91 TSS (Total Suspended Solids) HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids)	HDWTN-1	5884E-21	29-NOV-90	TSS (Total Suspended Solids)	3.0	mg/L	3		
HDFBWI105A 5884E-15 29-NOV-90 TSS (Total Suspended Solids) HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids)	HDWT 106A	5884E-01	27-NOV-90	TSS (Total Suspended Solids)	3.0	mg/L	J		
HDWTF-3 5884E-59 13-DEC-90 TSS (Total Suspended Solids) HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) HDWTG-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) HDWTB-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-4 5884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-4 III Mg/L HDWTB-4 JS884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-4 JS884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-4 JS884E-57 12-DEC-90 TSS (Total Suspended Solids) HDWTB-4 JS884E-57 12-DEC-90 TSS (Total Suspended Solids)	HDFDCP-1	5884E - 27	03-DEC-90	TSS (Total Suspended Solids)	3.0	-mg(LT)	び		
HDWTJ-3 5884E-49 10-DEC-90 TSS (Total Suspended Solids) 24 mg/L J HDWTB-1 5884E-41 04-DEC-90 TSS (Total Suspended Solids) 18 mg/L J HDWTG-3 5884E-63 13-DEC-90 TSS (Total Suspended Solids) 17 mg/L J HDWT106A 5884E-76 08-JAN-91 TSS (Total Suspended Solids) 15 mg/L J HDWTB-4 5884E-53 11-DEC-90 TSS (Total Suspended Solids) 12 mg/L J HDWTE-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) 110 mg/L J	HDFBWT 105A	5884E - 15	29-NOV-90	TSS (Total Suspended Solids)	-7347ATT	ハギアン	, Ja		
HDWTB-1       5884E-41       04-DEC-90       TSS (Total Suspended Solids)       18       mg/L       J         HDWTG-3       5884E-63       13-DEC-90       TSS (Total Suspended Solids)       17       mg/L       J         HDWT106A       5884E-76       08-JAN-91       TSS (Total Suspended Solids)       15       mg/L       J         HDWTB-4       5884E-53       11-DEC-90       TSS (Total Suspended Solids)       12       mg/L       J         HDWTE-3       5884E-57       12-DEC-90       TSS (Total Suspended Solids)       110       mg/L       J	HDWTF-3	5884E-59	13-DEC-90	TSS (Total Suspended Solids)	DE PERMIT	mg/L	J	-	
HDWTG-3       5884E-63       13-DEC-90       TSS (Total Suspended Solids)       17       mg/L       J         HDWT106A       5884E-76       08-JAN-91       TSS (Total Suspended Solids)       15       mg/L       J         HDWTB-4       5884E-53       11-DEC-90       TSS (Total Suspended Solids)       12       mg/L       J         HDWTE-3       5884E-57       12-DEC-90       TSS (Total Suspended Solids)       110       mg/L       J	HDWT J-3	5884E-49	10-DEC-90	TSS (Total Suspended Solids)	下下1	mg/L	1		
HDWT106A       5884E-76       08-JAN-91       TSS (Total Suspended Solids)       15       mg/L       J         HDWTB-4       5884E-53       11-DEC-90       TSS (Total Suspended Solids)       12       mg/L       J         HDWTE-3       5884E-57       12-DEC-90       TSS (Total Suspended Solids)       110       mg/L       J	HDWTB-1	5884E-41	04-DEC-90	TSS (Total Suspended Solids)	18	mg/L	J		
HDWTB-4       5884E-53       11-DEC-90 TSS (Total Suspended Solids)       12 mg/L       J         HDWTE-3       5884E-57       12-DEC-90 TSS (Total Suspended Solids)       110 mg/L       J	HDWTG-3	5884E-63	13-DEC-90	TSS (Total Suspended Solids)	17	mg/L	J		
HDWTB-4       5884E-53       11-DEC-90 TSS (Total Suspended Solids)       12 mg/L       J         HDWTE-3       5884E-57       12-DEC-90 TSS (Total Suspended Solids)       110 mg/L       J	HDWT 106A	5884E - 76	08-JAN-91	TSS (Total Suspended Solids)	15	mg/L	J		
HDWTE-3 5884E-57 12-DEC-90 TSS (Total Suspended Solids) 110 mg/L J		5884E-53	11-DEC-90	TSS (Total Suspended Solids)	12	mg/L	J		
		5884E-57	12-DEC-90	TSS (Total Suspended Solids)	110	mg/L	J		
		5884E-65	13-DEC-90	TSS (Total Suspended Solids)	11	mg/L	J		

## Preliminary Report HIMCO Water Quality - Ground Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
						• • • • •	*************	
HDWTF-2	5884E-51	11-DEC-90	TSS (Total Suspended Solids)	10	mg/L	J		
HDUT 101A	588/E.17	28 - NOV - OO	TCC (Total Suppended Colide)	53	mer/I	4		

# PRELIMINARY

MONDAY MAY 6, 1991 8:38 AM CENTRAL TIME

ELAPSED: 0 00:02:35.76 CPU: 0:00:43.79 BUFIO: 47 DIRIO: 1140 FAULTS: 3500

Preliminary Report
HIMCO
Water Quality - Surface Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
UD0007 04	F7F/F 40	40.005.00	Allert to want	450				
HDSS07-01	5756E - 18	18-OCT-90	•	158	mg/L			
HDSS08-01	5756E-26		Alkalinity, Total	158	mg/L			
HDSS06-01	5756E - 17	18-OCT-90	* •	143	mg/L			
HDSS05-01	5756E - 16		Alkalinity, Total	138	mg/L			
HDFDSS11-01	5756E-30		Alkalinity, Total	130	mg/L			
HDSS11-01	5756E-29		Alkalinity, Total	127	mg/L			
HDSS01-01	5756E-04		Alkalinity, Total	122	mg/L			
HDSS10-01	5756E-28	19-oct-90	Alkalinity, Total	120	mg/L			
HDSS12-01	5756E-31	19-0CT-90	Alkalinity, Total	120	mg/L			
HDSS09-01	5756E-27	19-oct-90	Alkalinity, Total	117	mg/L			
HDSS03-01	5756E - 14	18-OCT-90	Alkalinity, Total	113	mg/L			
HDFDSS01	5756E-06	17-001-90	Alkalinity, Total	104	mg/L			
HDSS02-01	5756E-08	18-OCT-90	Alkalinity, Total	90	mg/L			
HDSS04-0	5756E - 15	18-OCT-90	Alkalinity, Total	90	mg/L			
HDSS10-01	5756E-21	19-oct-90	Bromide, Dissolved	0.1	mg/L			
HDSS11-01	5756E-22	19-001-90	Bromide, Dissolved	0.1	mg/L			
HDFDSS11-01	5756E-23	19-0CT-90	Bromide, Dissolved	0.1	mg/L			
HDSS09-01	5756E-20	19-0CT-90	Bromide, Dissolved	0.1	mg/L			
HDFDSS01	5756E-06	17-oct-90	COD	42	mg/L	j		
HDSS07-01	5756E - 18	18-0CT-90	COD	23	mg/L	J		
HDSS08-01	5756E-26	19-0CT-90	COD	6	mg/L	J		
HDSS01-01	5756E-04	17-oc1-90	COD	5	mg/l	J		
HDSS04-0	5756E - 15	18-OCT-90	Chloride, Cl	38	mg/L			
HDSS10-01	5756E - 28	19-OCT-90	Chloride, Cl	34	mg/L			
HDSS11-01	5756E-29		Chloride, Cl	34	mg/L			
HDSS09-01	5756E-27		Chloride, Cl	33	mg/L			
HDSS12-01	5756E-31		Chloride, Cl	33	mg/L			
HDFDSS11-01	5756E-30		Chloride, Cl	33	mg/L			
HDSS02-01	5756E - 08		Chloride, Cl	24	mg/L			
HDSS03-01	5756E - 14	18-001-90	·	24	mg/L			
HDSS01-01	5756E-04		Chloride, Cl	22	mg/L	•		
UN 2201-01	3130E=04	17-061-90	dittor racy of					

FRIDAY MAY 3, 1991 10:37 AM CENTRAL TIME

### Preliminary Report HIMCO Water Quality - Surface Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
	•							
HDSS05-01	5756E - 16	18-OCT-90	Chloride, Cl	21	mg/L			
HDSS06-01	5756E-17	18-0CT-90	Chloride, Cl	21	mg/L			
HDFDSS01	5756E-06	17-OCT-90	Chloride, Cl	21	mg/L			
HDSS08-01	5756E-26	19-0CT-90	Chloride, Cl	21	mg/L			
HDSS07-01	5756E - 18	18-OCT-90	Chloride, Cl	19	mg/L			
HDSS09-01	5756E-27	19-0CT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.76	mg/L			
HDFDSS11-01	5756E-30	19-0CT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.70	mg/L			
HDSS10-01	5756E-28	19-0CT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.69	mg/L			
HDSS11-01	5756E-29	19-0CT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.67	mg/L			
HDFDSS01	5756E-06	17-oct-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.31	mg/L			
HDSS01-01	5756E-04	17-OCT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.30	mg/L			
HDSS02-01	5756E-08	18-0CT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.21	mg/L			
HDSS03-01	5756E-14	18-OCT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.17	mg/L			•
HDSS04-0	5756E - 15	18-0CT-90	Nitrogen, Nitrate + Nitrite (NO2 + NO3)	0.17	mg/L			
HDSS02-01	5756E-08	18-OCT-90	Sulfate, SO4	155	mg/L			
HDSS05-01	5756E - 16	18-OCT-90	Sulfate, SO4	155	mg/L			
HDFDSS01	5756E-06	17-0CT-,90	Sulfate, SO4	150	mg/L			
HDSS03-01	5756E - 14	18-OCT-90	Sulfate, SO4	146	mg/L			
HDSS01-01	5756E-04	17-oct-90	Sulfate, SO4	145	mg/L			
HDSS04-0	5756E-15	18-001-90	Sulfate, SO4	145	mg/L			
HDSS10-01	5756E-28	19-0CT,-90	Sulfate, SO4	130	mg/L			
HDFDSS11-01	5756E-30	19-OCT-90	Sulfate, SO4	125	mg/L			
HDSS12-01	5756E-31	19-0CT-90	Sulfate, SO4	125	mg/L			
HDSS09-01	5756E-27	19-OCT-90	Sulfate, SO4	120	mg/L			
HDSS11-01	5756E-29	19-oct-90	Sulfate, SO4	120	mg/L			
HDSS06-01	5756E - 17	18-OCT-90	Sulfate, SO4	100	mg/L			
HDSS08-01	5756E-26	19-oct-90	Sulfate, SO4	100	mg/L			
HDSS07-01	5756E - 18		Sulfate, SO4	42	mg/L			
HDSS02-01	5756E-08		TDS (Total Dissolved Solids)	384	mg/L			-
HDSS12-01	5756E-31	19-0CT-90		372	mg/L			
HDFDSS01	5756E-06		TDS (Total Dissolved Solids)	371	mg/L			
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FRIDAY MAY 3, 1991 10:37 AM CENTRAL TIME

### Preliminary Report HIMCO Water Quality - Surface Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
HDSS03-01	5756E-14	18-OCT-90	TDS (Total Dissolved Solids)	367	mg/L			
HDSS04-0	5756E-15	18-OCT-90	TDS (Total Dissolved Solids)	362	mg/L			
HDSS11-01	5756E-29	19-0CT-90	TDS (Total Dissolved Solids)	356	mg/L			
HDSS09~01	5756E-27	19-OCT-90	TDS (Total Dissolved Solids)	353	mg/L			
HDSS10-01	5756E-28	19-0CT-90	TDS (Total Dissolved Solids)	<b>3</b> 52	mg/L			
HDFDSS11-01	5756E-30	19-0CT-90	TDS (Total Dissolved Solids)	345	mg/L			
HDSS06-01	5756E-17	18-OCT-90	TDS (Total Dissolved Solids)	295	mg/L			
HDSS08-01	5756E-26	19-OCT-90	TDS (Total Dissolved Solids)	292	mg/L			
HDSS05-01	5756E-16	18-OCT-90	TDS (Total Dissolved Solids)	290	mg/L			
HDSS07-01	5756E-18	18-OCT-90	TDS (Total Dissolved Solids)	249	mg/L			
HDSS01-01	5756E-04	17-OCT-90	TDS (Total Dissolved Solids)	88	mg/L			
HDSS07-01	5756E - 18	18-OCT-90	TKN (Total Kjeldahl Nitrogen)	1.5	mg/L			
HDSS08-01	5756E-26	19-OCT-90	TKN (Total Kjeldahl Nitrogen)	1.20	mg/L			•
HDSS06-01	5756E-17	18-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.78	mg/L			
HDSS05-01	5756E - 16		TKN (Total Kjeldahl Nitrogen)	0.68	mg/L	J		
HDSS01-01	5756E-04	17-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.60	mg/L	Į		
HDSS12-01	5756E-31	19-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.60	mg/L	J		
HDSS10-01	5756E-28	19-0CT-90	TKN (Total Kjeldahl Nitrogen)	0.54	mg/L	J		
HDSS09-01	5756E-27	19-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.52	mg/L	J		
HDSS03-01	5756E-14	18-06T-90	TKN (Total Kjeldahl Nitrogen)	0.42	mg/L	J		
HDSS11-01	5756E-29	19-0CT-90	TKN (Total Kjeldahl Nitrogen)	0.42	mg/L	J		
HDSS04-0	5756E - 15	18-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.42	mg/L	j		
HDSS02-01	5756E-08	18-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.38	mg/L	J		
HDFDSS11-01	5756E-30	19-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.38	mg/L	J		
HDFDSS01	5756E-06	17-OCT-90	TKN (Total Kjeldahl Nitrogen)	0.20	mg/L	J		
HDSS07-01	5756E - 18	18-OCT-90	TP (Total Phosphorus)	0.08	mg/L	J		
HDSS05-01	5756E - 16	18-OCT-90	TP (Total Phosphorus)	0.07	mg/L	J		
HDSS06-01	5756E-17	18-OCT-90	TP (Total Phosphorus)	0.06	mg/L	j		
HDSS01-01	5756E-04	17-OCT-90	TP (Total Phosphorus)	0.04	mg/L	J		
HDSS08-01	5756E-26	19-OCT-90	TP (Total Phosphorus)	0.04	mg/L	J		•
HDSS04-0	5756E - 15	18-OCT-90	TP (Total Phosphorus)	0.03	mg/L	J		

FRIDAY MAY 3, 1991 10:37 AM CENTRAL TIME

Preliminary Report HIMCO Water Quality - Surface Water

Field Sample	EPA Sample	Sample		Sample			Depth to top	Depth to bottom
Number	Number	Date	Chemical Name	Concent.	Units	Qual.	of Sample	of Sample
HDSS12-01	5756E-31	19-OCT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDFDSS11-01	5756E-30	19-0CT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDFDSS01	5756E-06	17-OCT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDSS09-01	5756E-27	19-0CT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDSS10-01	5756E-28	19-0CT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDSS11-01	5756E-29	19-0CT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDSS02-01	5756E-08	18-OCT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDSS03-01	5756E-14	18-0CT-90	TP (Total Phosphorus)	0.02	mg/L	J		
HDSS07-01	5756E-18	18-0CT-90	TSS (Total Suspended Solids)	10	mg/L			
HDSS01-01	5756E-04	17-0CT-90	TSS (Total Suspended Solids)	6	mg/L			
HDFDSS01	5756E-06	17-OCT-90	TSS (Total Suspended Solids)	2	mg/L			

FRIDAY MAY 3, 1991 10:37 AM CENTRAL TIME

ELAPSED: 0 00:01:41.81 CPU: 0:00:35.97 BUFIO: 6 DIRIO: 912 FAULTS: 1216